a gara . Jay

p şab

the second that the second the second the second

泰格特

derigonal Council of the transfer to the product to the council of the council of

				Essa
	List of Tables			(ii)
	List of Appendices			(111)
I	INTEGRUCIA, M			4 4
II	Ciril'i a The LadiCATIVII			5 - 17
III	A HILLORICAL CURVEY OF CHAFTE IN INDIAN LCHO IL LYSTEM	*	*	183 - 35
IV	THE PRESENT FOLITION OF CHIFTS IN THE INDIAN SCHOOL SYSTEM	₿	轍	36 - 84
V	TRAINING FOR TEACHING OF CHAPTS	#	•	85 - 103
VI	ADMINITURATIVE AUPROTO	*	4	104 116
VII	A STUDY OF CRAFTS IN THE SCHOOL SYSTEM OF -	*	٠	117 - 140
	(a) U.K.			
	(b) U.4.A.			
VIII	CONCLUDIONS AND RECOMMENDATIONS	*	*	141 - 160
	Bibliography		*	161 - 186
	Appendi ces	•		1 87 345

9 4 8

L 1 s t

I A I A I A I A

1.	Duration of the sleavatury stage	36
***	Position ofcrafts in elementary schools	37
3.	Objectives of the teaching of crafts	38-40
A a	Crafts followed in cleaentary schools	43-45
5.	Time devoted to craft work in elementary schools	45-48
5.	Assessment in craft work in elementary schools	49-50
7.	Status of craits in secondary school syllabii	52
	Crafts prescribed in the higher second ary and multi-purpose schools	55-57
9.	Time devoted to craft work in secondary schools	58
10.	Assessment in craft work in secondary	59-60
11.	Number of replies from the various States . in response to questionnaire	, 62
12.	Status of craft in secondary schools of the different States	. 64
13.	Percentage of schools checking the various objectives of introducing craft education in the curriculum	65
14.	Percentage of secondary schools tenching various crafts	67-58
15.	Choice of crafts by students in secondary. schools	• 69
16.	Craft curriculum in secondary schools	71
17.	Physical facilities for craft teaching	72

training at the under-graduate level 22. Crafts tanked to pupil-tencheraln Post 95- Graduate Dasie Training Colleges		18.	Craft equipment in secondary schools	à \$	74
secondary schools 20-B Percentage of secondary schools having 79 Internal and External assessment of craft work 20-C Examination position in crafts in second 80 ary schools 21. Crafts offered in the syllability for teacher 92-5 training at the under-graduate level 22. Crafts tanget to pupil-teacher in Post 95-6 Graduate Basic Training Colleges 23. Institutionafrom which craft teachers 98-		19.		.	76
Internal and External assessment of craft work 20-C Examination position in crafts in second 80 ary schools 21. Crafts offered in the syllabil for teacher 92-4 training at the under-graduate level 22. Crafts tanget to pupil-teacher in Post 95-6 Graduate Basic Training Colleges 23. Institutionalrom which craft teachers 98-		20 - A	Aspects of evaluation of claft work in secondary schools	韓 僧	78
ary schools 21. Crafts offered in the syllabil for teacher . 92-4 training at the under-graduate level 22. Crafts tanget to pupil-teacher in Post 95-4 Graduate Dasic Training Colleges 23. Institutionalrom which craft teachers . 98-		20 - B	Internal and External assessment of	* •	79
training at the under-graduate level 22. Crafts tamble to pupil-tencheraln Post 95- Graduate Dasic Training Colleges 23. Institutionsfrom which craft teachers . 98-		20 - C	Exemination position in crafts in second- ary schools	* *	80
Graduate Dasic Training Colleges 23. Institutions from which craft teachers 98-		21.	Crafts offered in the syllabil for teacher training at the under-graduate level	* • •	92-94
2). Illust and a minera are a market	i	22.		8. 9	95-96
		23.	Institution from which craft teachers are drawn by secondary schools	**	ÿB -101

L 1 s t

APPANSICES

- I froforms sent to the State Departments of Education
- II questionneire on the position of cauft teaching in secondary schools
- III Various crafts taught to boys and dirls in some countries
- IV List of the Elementary School Syllabia
- V State-wise accounts of craft work in elementary schools as revealed from the analysis of the elementary school syllabii and the proforms sent to the States.
- VI List of Second sy school syllabii
- VII State reports prepared from the analysis of the responses from secondary schools
- VIII State-wise list of training facilities in cottage crafts
- IX Draft syllabus-cum-plan of work in paper, card-board and wood-work for grades I to XI

* * * *

WINT W 1

IMMONGALL

With the attainment of independence increasing describers are pade on the individual's social end personal efficiency. He rust be better equipment technically, and he must be better equified to assure responsibility for building up democracy and solf government in the country. Discriben being the most vital means of helping the individual to come up to those demands, has been receiving greater and greater attention. It is realized that Indian Education must be irrecased in range and improved in quality. It was also realized that the purely literary system of education provalent in schools and colleges would not be enough to equip our youth with the knowledge, scientific skills and character qualities which are so basis to the formation of any sound nation.

Looking to the psychological meeds of the children and the social needs of the country several types of changes were magnitud. An important trand arong these changes was the introduction of some type of hard work or rammal latour in the schools. At present we find that handicrafts are turnht as a commisory subject in all the primary and vicelle schools being rum on the basic mattern. Crafts also fors comp leary or optional object in the non-Hanic primary and middle schools in many States. Mocently in the multi-purpose schope for higher secondary schools craft has been included as one of the core subjects. Even in the ordinary higher secondary schools some of the States have introduced wrafts. In order to take further steps to introduce and organise this subject offectively, it is essential to survey the existing position and practices in our school system. Any serve of improvement will have to be guided by our experierces and experiments in this field. The present inquiry has been undertaken with this aim in view. It attempts to gively the movement of exact teaching in education in rangral and in our country in particular. An attempt is made to study the historical inportance of craft, the objectives, standards and practices of craft education through (1) the analysis of the school syllabii followed in different States; (ii) information supplied by the State Departments of "Iducation and or non-official organisations in response to a detailed questionmaire (a copy of this questionnaire is given in appendix I); (iii) analysis of In 229 responses received from the secondary schools of different States in response to a coefformine (for copy of the questionnaire see appendix IT); (by) study of the official progress reports and reports of the various educational committees appointed from time to time.

It is appropriate here to mention some of the limitations of the study. It has been conducted in a vary limited period of two months only. The limitation on time and the vast and varied scope of the study have presented many challenges. Foreover my systematic similar study has

ever been made before. Fatorial for this report had. therefore, to be selected from various sources and arranged in ar orderly way. An attempt was made to get the latest information about each State through the circulation of a questionmaire. The problem in interpreting responses to this awationmire was the difficulty of lowing how far the factual position revealed can be accepted generally in regard to the actual practice. Syllabil of elementary and secondary schools which were available in the library and which were received from the States were used for amilysing the position and practice of craft as a school subject. This source of information is again fallible because of the hozards in inferring from the syllahii the actual position Obtaining in schools. The questionnaire for secondary schools ma sent by the Mirectorate of Extension Programes some years ago. Wether or not the responses are descriptive of the present is not certain.

Limitations such as the above are bound to occur in a pioneer study of this procedule then the scope of the study and limitations of the study and limitations of the study approach. The study does, however, give a general picture of the position of crafts in our school system. Information has been obtained and analyzed in terms of:

- 1. Barde primary and middle schools;
- 2. Non-Rasic primary and middle schools;
- 3. High schrola;
- 4. Illgher secondary schools;
- 5. Maitty manner schools;
- 6. Pour and excheols.

This study was undertaken at the instance of Bhri R. R. Singh, Joint Educational Advisor in the Finistry of Education (Joint Birector, National Institute of Education), who constituted the following study group for the purpose:

- 1. Shri J. K. Shukla Director, M.I.B.W.
- Chairman

2. Shri B.9. Behgal Pield Advisor, DETER

- lomber
- 3. Shri Abul Kalam Director, Art Institute Jamia Fillia Islamia
- lenbor
- 4. Smt. Gautameshwari Shukla Basic school, Central Institute of Education
- Yenber
- 5. Miss Adarsh Khamma Educationist, M.I.B.E.
- Yonbor-Secretary

The study group was inaugurated an 13th November, 1961 by Shri K.k. Singh who explained to the group the purposes and scope of the enquiry. Since then, the members of the study group met twice in the beginning to finalise the schedule of work that was involved in the study. The work-plan prepared by the Secretary was approved by the group. Shri Sehgal and Shri Abul Kalam were unable to work full-time on the study but expressed their willingness to meet occasionally to review materials and methods. the need arose for coopting more members for doing jobs such as preparing the questionnaires, analysing the responses to the questionnaires, studying the syllabil and literature, analyzing official reports and documents, etc. Since persons were not availble for this purpose from any other institution, some members of the staff of the National Institute of Basic Education were involved and the study was conducted with their help.

The present report is divided into eight chapters. The first two explain the background of the study and the importance of crafts in education. third chapter is a historical survey of crafts in the Indian school system. This chapter also summarizes information from the reports of various committees and educational bodies of the country which have, from time to time, expressed opinions regarding the place of crafts in the schools. The fourth chapter, which gives the position of crafts in Indian schools, has been divided into two parts, one dealing with the position of crafts at the elementary school level, and the second with the position of crafts at the secondary school level. This chapter is mainly based on the analysis of the syllabil followed in the several States. the analysis of the responses to the questionnaire administered to secondary schools and the information supplied by some of the State Departments of Education and some non-official organisations in the States in response to our questionnaire. Chapter five gives some idea of the facilities for the training of craft teachers in the country. This information has been obtained from some Departments of Education, from some individual craft lecturers/teachers and cr ft training institutions.

In chapter 6, an attempt is made to study the administrative and organisational aspect involved in connection with the teaching of fraft. Chapter 7 gives a brief picture of the position of crafts as obtaining in U.K. and U.S.A. It is hoped that Chapter 7 might be useful in evolving a good plan of craft education for our schools. The last chapter, Chapter 8, is again divided into two parts. Fart I summarises the conclusions that follow from the studies made in the previous chapters. Fart II contains recommendations to

be implemented at various levels. These recommendations have grown out of the study and are presented in the hope that effective steps would be taken to put them into effect.

The data collected for this report have been presented in 17 tables, a list of which is given in the beginning. Apart from these 37 tables, 12 tables pertaining to the position of craft teaching in the secondary schools of individual States are given in appendix VII.

Nine appendices have also been given at the end of the report which include the tools used in this study and detailed accounts of the position of craft teaching in the various States of the country as revealed from the analysis of the syllabit and the questionnaire responses. Appendix No. IX gives a draft syllabus-cum-plan of work in paper, card-board and wood work for grades I to XI. This is purely tentative. It will be very desirable if groups of specialists are appointed to work out model programmes for each of the several major crafts. Such groups may be assigned the task of working out the detailed syllabus as well as preparation of lists of raw-materials, tools and equipments required for each of the crafts studed.

6713 1 2

I. Importance of Contta

his use of tools. For this reason, harderaft har always been of vital significance in the history of nashing. It is said that culture had its inception down man learned how it make a fire. As he slowly accounted the ability to device simple tools are not be for posting his meds of daily living, his hand became the servant of his mind to form a harmonious martnership in the process of living. It was some Greek while or her who realised this relationship when he stated in the large to use his hands and then became intelligent. If G. Tells exphasised the same thought in a different way by saying that I fundamental instinct of life is to create, to discover, to make, to grow, to progress. It is now almost arignitic that if man's capabilities have to be realised in full manner, it is necessary that the hard any mind form a coordinated, uni-fiel, interacting antity.

Tack root long before the beginning of academic subjects. In part because of its antiquity - beginning from the birth of civiliantion, - handleraft affords a rich source of election and understanding of the past traditions and beritages as well as a basis for projections into the fitter of living. Since crafts are a fundamental human activity, it is possible their practice to bein promote intermational relationships on a human and fundamental basis imprespective of any frontiers of climate, culture, traditions or even projudices. They involve the restriction of raw materials which have inversed common of a collision of any frontiers of climate, culture and the world.

The teaching of prafts has a special significance today when we emphasise education for democracy. Education for democracy implies, in its broadest sense, attempts to impart the least tages of the ages and also to propare the young for propagatel, active and marticipating membership in their society. The teaching of the in education makes important contributions toward achieving both these goals. It also provides an outlet for the creativity which has ciracterised man's development and advancement. Hardicrafts can provide a natural medium through which the skill and dexterity, meathetic appreciation and social customs and values of a sense one of the most important may be accounted to a subsequent

II. Icae Minentional Theories & Craft Reaching

hany early topology and this control have written to glorify the importance and the control of arts and crefts and manual training in education. Aristotle emphasised the importance of drawing by new or pencil for enabling man to judge substance, fore and familion in buying things which are durable, hardsome, delightful and pleasant. Cominius thought that "obdition should learn the most important principles of the mechanic arts, both that they might not be too ignorant of what goes on in the world around them and that any special inclination to and things of this find may assert it will with areater ease later on." Rouseau revealed his thoughts on the value of practical work in the schools then he stid. "If instead of reling a child stick to his books, I supley him in a workshop, his hands labour to the sport of his mind, he becomes a chilosopher but function by in only a sortenn." Rouseau further pointed out that "the grat meet of education in to make the exercise of the hody and the mini serve a relamitor to each other." He claimed that Guile "will learn nove by an how of namual labour, than he will retain from a whole day's verbal instructions." Fertalossi. referring to his work and touching said, "I tried to comect study with name? labour, the school with the workshop and pake one thing of them." In Arthur stated. " I am more than ever convinced that an noon as we have educ tional establishments combined with workshops and on a truly psychological basis, a --- ration will necesparily be formed, which on the one in the show us by experience that our present studies do not require one tenth mart of the time or the trouble we tark alwe to them." Herbart emphatically stated that "every growing boy and youth should learn to hardle the recorded tools of the carpenter, as well as the ruler and errises. Prohamical desteraty would often be more unoful to be subject in gymnatics. The one helps the spirit, the other the body. Isman ary schools should have workstone, though they should not netually be technical schools. And every man should learn to use his hands. The hand holds the place of honour at the side of the ower of speech in raising ren above the heasts."

The theories developed by these educators and their contemporaries influenced the development of educational systems in Aussia and Sweden and their practices affected U.S.A., Tegland and other countries.

IIV. Tranda in Different Countries

In Tussia, "rection" education was introduced during the second half of the entertainth contant by Victor Della Vos who analyzed the processes of the mechanic arts, breaking each down into a series of logical steps. He developed

the amilytical tochrown and pears of determining the fundamental processes and therefore the things that should be taught. In his system the students made a series of models or exercises as a means of learning the fundamental operations. Before a student we permitted to construct a useful object, he was expected to paster the processes, step by step, that would go jute the construction.

In the Scapinarian countries the use of hand tools to make useful objects for the ione was a traditional bees craft (Aus Sloyd) didds was being neglected. In order to realize the rany contributions hardicrafts can make to the optimum development of children a system called "Nord training" was introduced in the primary schools. Through the construction of a series of crticles of wood of increasing complexity, it was expected that desirable labits and attitudes of work would be formed. At the same time the deviation of measury skills for entering further apprendiction of the develop initiative and anotheric as preclation while providing a change from other studies.

Vac Cygnaeus in Finland and Otto Jalenan in Sweden led the movement to idilize Glosd at an instrument of advertion. Palmen owened a light school at Mane in InCh. where instruction was control on the making of useful objects. His objectives were areainaly minimar to those usually according as the chiectives of men I orbeation today. The methods adopted by him cores of the interest of Marie Color and the second of halved arroad the provinced for precious for the protter and study of craft at an or cate. ... The Swedt sh emphasis was some strong of number and mental training beand chiefly on strong to the best mental many many many many mental was proconsension to the contract of the contract the world were attracted to this system and pany teachers from other countries took a six-wooks' course at Mass. As a result; handleraft was firely established as a school aubject in Sweden.

There were several displicant differences between Tloyd and the Sustain system. In Sloyd the stademts lear and the tool operations while soriding on tasful projects. In contrast the Sustain's emphasized rading people and typical right exercises. In the Sloyd training, it was usually not possible to havile large classes as the Russian Della Vos could with his system. The Swedish development stragged interest, individual differences and small group instruction. As Sloyd classes became very popular in some sections the country, arguments with the advocator of the first system were common when discussing the best approach to the teaching of manipulative subjects. Those two systems, the Swedish and the Fuszian, deminantly influenced the teaching

of in watrial advention for some time, although other torons were seen to a coar and give by with and lepth to this new area of the curriculum.

Hand training spread in England with the establishment of the Sloyd Parcelation of Frent Britain and Ireland.

Samuel Barter, when a cointed for the Instructor of Hands training in the element of the London County Council, brownst cut two publications. Planual Training" (1802) and Parading" (1806) indications the functions showed a real advance over the Swedia: system. A third brok " lements of Handiers than Decign" (1898) by W.A.S. Benson was considered an outstanding book of the lettod.

Seconding to these publications manual training was firely established on the legals of mechanical efficiency in practical work and securacy in drawing. Forticular stress was laid on the training of band and eyes.

In the early stages, Unglish educational authorities were not unaminous in accepting, much less praising, named training, as a school subject. Named training contress in which instruction was given were built on school grounds and thus over a polici of pany years the species of the subject gray and mered to Secondary, Grasser and Public schools. Hammal training, prior to the first World ar, was rather loosely described as Hampleraft on the term was applied to various forms of hand and eye training in paper, or the ard and other puterials not directly associated with any historic craft. It was only after the first with any historical subject was placed on a definite craft basis so that the subject was placed on a definite craft basis so that the rich horizage of british crafts with any historical, activity and ould not relies are required into the so cols.

manual ir diin; is the Trited States. It. Louis Missouri was exect. It is not to open a Formal Training School (1779) with one of the main objectives being to train the head and hand. By 1771, manual training was developed with the main object was borrowed from fusion. As loy became the and now influential, however, the production of useful objects became important and manual arts replaced marked training. Today the marked arts approach with emphasis on projects still continues.

The basic theory of police advocates of hardistates is influenced by the relected of learning by deing. John Joseph in his learning belief advocated place. Both decreases and advocated by deing that the post of part in wood and metal, of waving, and cooking a problem.

About 1970 F. Gerden Toman and Dann Hussel of Cauchara College, Columna University, were inflamated in the development of broader concepts of industrial arts, and the Tgerman shop idea began its development. The intention was to been all of the old that was stol, but to have the entire field of industry as a basis for the samuel work rather than randpulative activity from a few specialised fields. These that the development of the industrial arts of an area of general education has carelleled constitution in the industrial arts of the industrial action in the industrial arts of the industrial action in the industrial arts of the industrial action in the industria

In the whole reverent from manual training to industrial arts, the fundamental concept remains in tagts that children learn best through active participation in concrete experiences concepted with the participation of their physical and social environment. In the child in the property belief in that the basic principles of electricity would become real and nestingful to the child in the property of constructing a simple decribed croudt or a crystal radio effectively declars when he is entaged in talehing about doin; and actually doing. In the part fifty years or so, the accent has widthed from the causal of newesternia acts.

Thus the prostice of Gloy! work in Tueden and instruction and construction through ordered excraiment in Russia. Let to the concept and practice of name. Training in England, there was special emphasis on the craction and study of craft work and craftsenthip and on their time and craftsenthip and on their sections. The same idea led

17. Clarifying Comparis and Frantiers

3 P C

In order to understand fully the modern developments of practices followed in the different meetings attached to be a tender to contain exact were desirable because of a tendency to contain exact were different mentals because the first angular practical arts mental education and produce the development that the development the development of a meeting of the development of any arts and any produced and a meeting of the development of any and any produced and a meeting of the development of any and any produced and a meeting of the development of any and any produced and a meeting of the development of any and any produced and a meeting a meeting and a meeting and a meeting a meeting a meeting and a meeting a meeting and a meeting and a meeting a meeting a meeting and a meeting a meeting a meeting and a meeting a meeting a meeting a meeting a meeting and a meeting a meeting a meeting a meeting a meeting a meeting and a meeting a meeti

'entual training', it as greated that 'we are repidly leaving behind the arealy disciplinary thought of narreal training and enlarging the acope of this work to include the industries which are fundamental to median civilization. The term 'marrial training' and 'marrial arts' as practiced in earlier acousts but quite a different connotation. In example training the caphacia are on the marrial mide and its would underdown and for the attent to make a series of models or exercise pieces. The term 'marrial arts' came to be used in response to the criticism levelled against non-collect are specially and on the subject. In marrial training that it did not may attention to the art and design possibilities inhorant in the subject. In marrial arts its art aspect as a stressed. In injustrial arts the emphasis was on injustry and injustrial life. The United Ctates of the term as follows:

"Industrial arts is a shah of a need education that cores itself with the materials, processes, and products of ramifecture, and with the contribution of these engaged in industry. The learning comes through the experiences with thousand in twists and through his study of resultant conditions of life. It is a currectly area rather than a subject course, being common in this respect to the language arts.

"Industrial arts, therefore, has general values that sonly to all levels, and in a continuous inspresse these values are presentedly intensive and M6 consilation in their effect as the public advences in paterity. Through such a progresse the outility

- 1. Gains knowledge of the changer se is in materials to meet the meds of society, of tools and industrial processes used to effect these changes, of the consent adaption of materials, tools, and troopses to meet changing meds and committees, and on industrial workers and working conditions.
- 8. Grows in appreciation of the value of information regarding competions as a background for a wise choice of a career, of the importance is motorn life of tools and industrial processes, of the artisty of the designers and the will of the artisan, and of the disnity of productive labour.
- A. Increases in ability to plan constructive projects, to select and use sources of industrial and related information, to handle trole and reteriols, to express with materials his into it will interest, to use effectively his recreational time, to work and store as a rember of the group and to evaluate work and its products.

4. Davalops attitutes of concern for safety practions, of consideration for workers in all fields, of regard for occupation among the numbers of a group, and of respect for preperty."

V. Mace of Grafts in School Carriethm

"Amt le enla about inhertal arts is true to a great extent of crafts in education. The practice of crafts has a special significance in the modern world as a means of transforming our social environment by forming menthotic taste, relating the creative urge of the child to the material world, making knowledge concrete and practical, building up character and send bility. The use of tools in the eraft with and the manipulation of raw-materials help children in acquiring a sense of marrow thirty, ordnowy and precision and that is some in out of the fee to also tion and choice of materials as the tree of the recentry for mature interstanding and appreciation. process of education implies that every shild would be belond to understand and interment with persons and tilings in his arrivancent. Fart of the importuhes of craft lies in to come up with the relationsh por non to thi see. It time fills a unique place in the ear nol curriculum. Ht. Lon. H. . Thitler in his address to the College of Mandi-erafts in April, 1987 asked this significant question: that are the virtues of handloraft as a general subject in the curriculus ?" In his attempt to answer this question he pointed out that the fraction of handloraft leads to three kinds of training. "There is in the first place the training which comes from the discipline of exact work in a defined medium. A pupil has to use intractable materials, to accustom himself to adjusting his methods and demands to the limits set by the nature of his material. He has to learn the correct use of tools and to arrestate the vilue of accuracy and exactmes. Many subjects of study are commended as disciplines. Mandieraft, too, is a discipling, with its own requirements and its own lassoms.

"The second field of training lies in the development of physical capacities. I am told that the hand centres in the brain have their nest active period of development from the fourth to the fifteenth year and that the training boys and girls receive in these years has a most important effect on the degree of their manual efficiency afterwards. The sure that we must not underesting to the importance of training which helps develop to a fine point of physical control and coordination. The other kind of training which I have in mind is that in taste. Haudioraft can make pupils alive to the engentials of good design and can play an important part in the development of good taste.

Todastrial sta, Ita Interpretation in American Schools, p. 1, dulintin, 1934, No. 24. destingtion: Gove. Printing Office, 1934.

These times wints of training handcraft can give to any boy. I do not thin, that they represent by any seams the limits of its value as a school subject. Suite apart from the oldlis actually acquired, handi-craft can, I think, when taught with an appreciation of the potentialities, be a most neeful medium of general mental training.

VI. Bigni dearce of Gradie in Schootion

Grafts have acquired great deportance in educational programmes during recent times. Though crafts have been practiced since the horizont of human existence, their value for the child's elective them was recognised contemporancountry with the development of modern psychology. It is being increasingly realised that crafts provide suitable media for the child to develope self-expression, discipline, as well as femiliarity with respectation, tools and social realities.

sateblish the contribution that craft and other productive work (manual work) rakes towards the development of human brain. The observations of the received of former, for example, are worth noting in this respect. The productions of the brain depends upon establishing connections between the neter and sensory centres, the raction of namual work adding so effectively in developing these highly specialised complex centres that it loads finally to brilliant into literate and a well-valanced rind. Progressive namual for all on from four to fifteen is thus not time lost but constitutes, on the contrary, the true and only procedure for normal development, since it opens up indeed the only road which lature herself attempts to lead the child.

The teaching of crafts gained importance because of the realisation of the meed of "training the senses". "Until we are prepared to encourage the development of the senses as such as we now do the intellect, the mental activity of imagination as much as we now do memory... until them, our talk of education the scale man is eye-vash". (Mebertson, D.E. Creative crafts in advection, lendon; loutledge & Megan and a problem of contract in advection, gives the child opportunity and the mins rich experience. Gandhiji explaining his scheme of education through erafts said, "My point is not that the start should be made with crafts and the rest should come in as auxiliaries. On the contrary, I have said that the whole of general education should come through the crafts and significances by with their progress progress."

The wind regard Paul Co. 125.1.

Var our claims have been made with remark to the place of crafts in education. Too different claims may be at to appear nother extraverant leading to an expectation of the International Parks of Successor on the teaching of handlerafts centions that the contract applying to the industry agrees a single of handlerafts may be deen in terms of the district on the terms of character as the education of the district of the attention, concentration, for severance, according and better attention, concentration of principles of the district are introduced for developing abolity, the applit, respect for manual work, assertions of health, satisfaction of creative area.

The one of the latest reviews of the educational elient on in Table . A Soviet education of the educational printing on the space dure is proved his reported by reported ariself. The clares like the time allegated for precised work and serious entities and the reported received from verious advants and the chilis in productive work whether in injustry or agriculture, has a tremendous effect that and stirlline and stirlline it is the entitle not educated by the chilis and stirlline begin the chilis and store the product in the education by teaching it a meetal hardenaft and enabling it to produce from the rement it hegins its training.

It would be recorded to continuo, almost detectly, . Constitution to the state of th The second of the second of the second of the second advention and mains coults as a backs of our contract browledge. "Let us now any a built and commercial on eduentire the child properly through named work, not as a side activity, but as the frime rooms of intallectual troining, said tahatma Cambi. Isa tamous declarations "My plan to inpurt minury admit on through the position of willness hardicourtes the opening and option and option of the a Transfit with the nest fur-reaching consequences, indicates the importance to him of the examinent. The essence of Pario education can be mercel ted in the caree of Palates The this wife common a most administrate to the state where pregrandye walt-reliance in all respect of a healthy and The control of the state of the The form is a first to be a first to be some and in the second of the se

The use of craft in productive are at the median of edication is inside inormalizaty recognized and etropical in they countries also. The were the the International the means of the things on has an admitted that come to the term of the The a commenter form. I carecities of analysis of animal statement of Street on appearing the International of expets as the Instruction of 4 liver in our in material or of all subject of 12 with the test of a title to the total and the title to th priditant on transcate the degree to which the importance of ericks and productive work in heigh realised. The for abould practical sort, and the importational subjects too, for that matter, he trasted as a webdele for touching the havie trai vibiorty ? her there is no reason at all why they should not needed the importance of the an much to there sidle it could their proctice, appears, and having accepted it, be on the acteb to her owny opportunity for 7, 7, 7, 13, The there was the creek become a the terms and or the paterial far of atom to det.

The might thank talms of crafts in education is borre out by the facts remeded by the Jerman report of 1950 (See French 277). From the date on leather from 40 countries the following theta were revealed about the sector to the fact in sector of actuals.

Med Craft: This has been included in the court-

becal with Milos the matrices teach it.

Problinging: 33% of the countries teach it.

And the state of t

Leather fight 10 of the countries touch it.

Marine. This is were a confi for sirls.

Nooth works It's in followed in girls schools and

Describe Science: This craft is meant for of de and

Viv. Difficultion in the Montion of Crafts in Schools

Even though the vital incertance of craft in the recent of education has been compally recentland, there have been regions at flowitten in the pay of a lopting its teaching in the according to the second proton.

- one of the most obtions difficulties is the belief among a section of our beauty that beauty per about he altegather avoided in the cheels. This belief is based on an attitude toward life that has its reats in the Greek conception of life and happiness. The Greek conception, but its handlerafts as such term to Greek conception, but not lead the life of pertanden of trader on, for each life is ignoble and iminical to winter. Total robe a man of leisure that is indispensable "to the development of virtue and the performance of political lutice". The compatibility of a life of toil and lardship with the highest satisf attentant perfection was unthinkable to the Greek.
- it) This cort of belief led to another difficulty, find of according practical core with trade or vocation. This led to the term of the line. The approach in the absention of the led to be from The Clarken reach on condition of the least to be from all at the correspondent of the the process selled that training of the civil is uite different from camel or carifold declarity or training of the camel or bank or best or best or best or best or called the camel or called the camel or called the camel or called the called the
- 111) Purther a question arose ha to the craft should should it all be takent in an age of machine civilimation I. In an answert: this mention bias To make
 Mairi Robertson has pointed out at length that there
 is no assential antagonism between the acceptance
 of the machine age and acceptance of craftmanship.
 She dwells at length on three terriments' resons
 which may be repreduced in her own works as unders

"It is from no remarkle retrogramative attitude that I may I be issue we made crafteen whip in this reactive ago." I may we send it for they reason:

Beonald M. Erbertson. Transfer of the transfer of Allertson. Allertson. Jane 19 (1997)

Recould E. Robertson. "Craft and Contemporary oulture".

- The state of the second and the seco
- In any man, in the occidental or i, and the second of the
- The project of the children of a control of the children of th

- (iv) Finally the progress of hamilteraft teaching has been, on the whole, slow because of its expensiveness. In India, especially, the financial inplications of craft teaching with its demands on Fav-Materials, equipment, tools, workshop facilities and specially trained teachers has led to musually slow progress of Basic education. The hope, that craft teaching could be largely self-supporting through the sale of craft products, has not materialized and officially it has been abordoned.
- There are also plenty of other administrative problems like lock of well-qualified and anitable craft-supervisors or inspertors, lack of adequate administrative machinery to deal with problems of supply of adequate materials and tools, arrangements for repairs and replacements, records for keeping accounts for craft work, evaluation and assessment procedures for craft work and refresher training for craft teachers.

CHANG B

A STUDY TOUR BY A DESCRIPTION OF THE TAIL THE

I. In Indian Irtia

Handier: to are one symbolic expression of India's great traditions and cultural heritage. Hany instances of Sanstrit, Juddhist and Jain literature contain references to the 6d Malia which pertain to ancient art: and crafts in the traditional sense of the work. The Jatakus were the first to differentiate between religious and literary works, such as the Vedas or the Hamanities, and the Shilpus proper which indicated a craft or workien based on practical skill. One Jataku actually mentions 18 crafts organised into guilds some of which are those of "masons, black-withs, carpenters, painters, men skilled in all arts and crafts."

The practice of arts and crafts seems to have accuired anch preventions that Eautilya is his tett to refer to the vertices described as indiction, craft to the This organ misational nerfection shows to a great extent the scope and announced of the and endered diving the time of Changinghyte '... (7" 1-" B.C.). During the Vedic rociety, agriculture and corporate more highly honomed and the extraordingry abili in ramma eratha was delfied. It was much leter that the east superdomity of Brahmins and Kashtriyas was proclaimed and there who collowed rumul eratte and hardier the emo to be held in les esteem. In ancient times, training in arts and crafts and imparted by a rigorous system of apprenticeship. Altokar describes the apprentice as being required to live in his toucher's house for all the 24 hours. "This way to amount a thorough acquaintance with and grounding in the different processes of the craft that could be picked up only by an intim to and prolonged contact with the various ategor of the namehaturing processes. Ituliants were also trified to pake their own tools in order to orsee correct mastery of the profession".

All of this shows that cruft aducation in ancient India represented semarate vecational or professional training and was not an integral part of general education. The indigenour school, which Clourished until about the beginning of the 19th century, did not hake any provision for the learning of craft. Thus the practice of ancient arts and crafts came

pr. 345-366.

B. B. Board and marginer of about the marine of the marine

^{3.} A.T. Michigan. "This flow in the training to the property, especially op. 199-2006.

to be limited to a few families of artisans and craftmen who formed themselves into anecial casts, based on the practice of a craft or industry. We phenomenon of a highly skilled craftman being illiterate and uneducated became cor: on. Learning and effectory of craft was restricted to families where the skill was handed from father to son, which ded to the devolution of four Varma or functional groups.

II. Beginning of Modern Education in the 19th Century

From 1823 the British Government began to lay the four-dation of the modern system of education in India and this gradually displaced the indigenous schools. In the beginning the modern system of education did not differentiate stages like primary, secondary and university. Instead, all schools were divided into two groups - verracular and English - on the basis of the medium of instruction they used. The objective of both types of schools was the wase - the spread of Western science and literature. In the curricula of these schools there was no place for cruft work.

Nood's Education Despatch, which marks an important landmark in the annals of the history of education in India, recommended establishment of the different types of institutions. It also set out clearly their aims and scope. The scape of primary education was defined as consisting of what-Swer knowledge including reading, writing and simple arithmetic and rules of land measurement, which enable each man to look after his own rights. Developments in primary education that took place in consequence of recommendations in the Desputch were surveyed in the report of the Indian Education Commission of 1882. According to this Report their was uniformity emong the various Provinces in the teaching of the three Ris. In Bombay however, the curriculum for the upper primary schools included inter alia the following optional subjects:

(1) Alementary drawing;

(ii) Field instruction in agriculture;

(111) Printing, corportry, joinary, mathy, etc.

It has not been mentioned in the report of the Commission as to how for the optional subjects at (ii) and (iii) above were popular and that arrangments existed for their teaching.

The Mood's Despatch also recommended establishment of secondary schools, the purpose of which was to convey to the great mass of the people useful and practical knowledge suited to every station in life. It is clear that the Despatch contemplated provision of vocational or pre-vocational instruction at the secondary stage. But unfortunately nothing was done about this recommendation.

Reviewing the standards in secondary schools in 1982, the report of the Indian Education Commission states "on a composition review of the course of study in the secondary schools or departments through out British Indiam, it may be

gamerally state? that from the time of his entrance upon the secondary stage, a scholar receives instruction in the following subjects: Unglish, the vermeedar, arithmetic, geography & Vistory, The accounts of the courses of study for the siddle schools and the matriculation examinations of the different Privareities given in the Report make no mention of craft work or practical bias in the curricula of these schools.

IVI. Barly Experiments in Barnel Training

That the Indian Advocation Correspion was not improved by the med for introduction of orall work in the primary achair to conspicuous by the absence of any reference to this subject in their recordations on crimary education.

As require encontary education, the Commission had made one very valuable recommendation that "in the uncer eleages of the high schede there be the divisions, one leading to entrance examination of the Universities, the other of a more practical character, intended to fit youths for commercial or non-literary pursuits." The Commission did not also becate the character of the other division of a more practical character and it was left to the decortments in the provinces to decide it.

Ant with standing the absence of any recommendation for 1 strade than of onatt in the property and the riddle noncole in the report of the Indian Theation Commission, the neal for ramulawork of ome ided in these schools was soon r all sed. Panual training based upon the "loid system was instruction as a commitment multiple in the curriculum of the upper ordinary own instituted in the Central Frovinces in the year 1390-1891. The object of the system was, by a series of simple exercises in wood work, clay modelling, card-beard modelling and puper work, to train the faculties to accuracy, destority and a sense of proportions, to divert the rird from words to things, to died by labour and thoraby, presibly, to lestroy that confirm to for marrial work which so corron among Indian middle and upper classes and which paralyses all efforts to give education a more practical best. The system of manual training was amnomalar, however, and may breaken its object was misurfaratood. Enforcing the results. parts throatoned to radice the ettendance in primary and mit " a school with the regult that marked training was transferred to the list of outlonal subjects shortly after the end of 1891.

An attent was also made in the Hadras Province to introduce cannol training in the school curriculum. An extract on this subject appears in "Progress of Education in India, 1802-23 to 1806-27 - Third Ominquennial Newisw", and is reproduced below:

"Every experturity is taken to impress upon heads of institutions the experient importance of Harmal training. But it is 1977 [cult. to get managers of schools and parents of pupils to realise the purpose which it is intended and fitted to serve in the

achool curriculum. They look woon the time devoted to this ambiect as so ruch deducted from the time wideh halan a to andingry bank-subjects, and there fore as a highware to a boy's abmor of raiding one or other of the wible existention, mecanism thich is ra independent of the independent of the education which lands up to them. Thit lands have show that both the quantity and the cuality of ordinary school work are improved: the training of the hand, the eye, and the intelligence, and the seneral around my of the centul and bodily chergies buring a most ham their ly effort on the whole of the work of the achoel. Comraring the state of things at the one of categories make with what it was at the beginning, it may a rear that instant of magrans tores tax has retroversators there eaing fower airportus alignet attached to inptitutions for moveral advocation than there were five years ago. But it is missly meathing estroid it, during those five year, in him been able to mid our alves of some of the abstractions at first entertained rs to the aims and methods of laminit training as a mat of the school curriculum and as to the qualifications needed in these who undertake to import instruction. This, I think, we investione, in art of leart. It Jones succeed that manual training can take its are, or place in line with the ordinary subjects of the curienline, and it idil he years on force the sorrigers of

Resides these attempts at introduction of ramal work in the schools, efforts were also rade to first reaction bias to the emperious in the original and translate orders law the reaction bias, however, comprised reatly of modern subjects such as geography, drawing, science and sanitation and district from the subjects involving physical activity and productive work. The nature of the tractical has were itselfact from that of and twork today. For example the practical subjects for the fourth standard in primary schools in Madras included object lessons or elementary science, free hand drawing, needle work (for girls in native schools), secrepty, history of Indian, Agriculture (for boys only), required on from the control of the property science. As recards Dengal, the Third Quinquantial Review on From the Clincation in India, 1898-93 to 1896-97 reports:

teacher: a reciplly trained for the charge of queb classes can be obtained in sufficient makers."

The course for primary schools is also of a practical character. Agriculture as well as physics is prescribed for the under exemination; and instruction in sanitation is compulsory in all primary schools, both of the upper and lower grade. Besides these, mensuration according to Indian methods of calculation and keeping accounts; and in the language text-book or Reader, some information about agriculture and the nature of many is sought to be conveyed. It is not possible to tell how many pupils in agriculture or sanitation at the language text-book or regarded and the conveyed.

Birilar attrutt made in other provinces were also reported in the himmingal Reviews.

By 1901-1909 alternative examinations at the secondary stage had been instituted by the Government's of Madras and Bengal and also by the Universities of Allahabad, Bombay and Punjab. The alternative evaciation in Madras included a commenced we list of outlonal subjects such as mensuration, by a place and hydraulic engineering, building materials and construction, surveying and levelling, building materials and construction, surveying and levelling, mechanical drawing, bridge-paring, a griculture, redelling, botany, general biology, drawing, hygiene, inorganic chemistry, wood and copper-plate engraving and atching, ban'der and solitical economy atc.

For the school Final examination of the Allahabad University, the candidates had to study English, Geography, Vistory, Mathematics and a Modern Indian language as compulsory subjects and any two of the following subjects:

1. Drawing;

2. Elementary Physics and Chemistry;

3. Agriculture and surveying;

4. Book maping;

5. Political economy.

In 1901-1902 about 2000 cardidates appared for the alternative examination (out of which 1200 belonged to Bombay where many candidates took both the examinations) as against 23000 cardidates who appears? for the matriculation examination. It is, therefore, evident that the alternative correct had not become popular.

The global compared to the property of the pro

With the initiative from Lord Curkon, at the beginning of the 20th Century, emphasis case to be laid on the qualitative improvement of education. Among the various reforms suggested by him, was the provision of vocational courses at the secondary stage and the holding of an alternative examination to the Estriculation. The Government of India Pesolution on Educational Folicy (1904) stated:

"The first call for fresh effort is now towards the development of India industries, and specially of these in which rative capital may be invested. Tachnical instruction directed to this subject must rest upon the hards of preliminary general education of a simple and practical kind, which should be clearly distinguished from the special teaching that is to be based upon it, and should, as a rule, be imparted in schools of ordinary type."

As regards the primary schools, Lord Curson emphasised curriculum emichment and unged that agriculture be included as a subject, particularly in rural schools.

According to 'Progress of Education in India, 1902-1977, Fifth Disquential Caviou', the state of teaching of manual work for older hope in the primary schools in the various provinces was as follows:

structon fly of formed as an adjust to all mobiles.

Hophy - Orional, as alternative to object lasers in science.

Mongal & Vast Toras - Optional

Trigger for - whom work had to

mortal - not tourse

Param - Mot turnita

C.r. and Barar - (Whan - optional (ural - Mot taught)

In the middle vermentar schools, according to this review, named training was compulsors in the United Arc-vices, and was obtained in Bengal and Control Provinces. It was also an options ambled for the school Circle or minetion in the Trovince of Bombay. We do a evaluating the quality of work and the a mangementary de for the teaching of manual work of the schools is available.

The menomental keviews or fractures of Education in This, for the eriod 1907-1922 do not give information about the status of namual work which is ade mate for any conclusions. These of emphasis on this subject in these reports should not, however, lead to the information that it was not regarded as of such importance.

Inspite of Curson's amphasis on improvement of school corrigula, not such and schlowed in the years following him. To measures were taken for giving a practical bias to the secondary school curriculum with the puriose of introducts vocational or move ational courses at this stage. The administration apparently believed that the alternative examination would meet all the recast of the situation. Analysing the causes of this situation as it existed in 1921, "yed Turullah and J.T. Taik have stated as follows."

".... it rust be admitted that there was no keen demand from the public for the introduction of vocational courses and that the attempts made at introducing them often became unpopular. This was the to several causes among thich the following may be mentioned:-

The transfer of the state of th

- "(1) Intil vary late in this worder, the problem of educated inemployed had not become arrious. It was still possible for a parson with a knowledge of ingilab to set some apploye of either ander Course, next or in write achoes or trade. In other words, a knowledge of inglish led to employment and was, therefore, still equivalent to versional training and so long as this situation did not often, real versional training did not have ruth chance of becoming copular."
- (9) "The mosts of the upper according standards came north from the riddle claraes (from the accordance stand-point) who were accustered for continues to live by intellectual work rather than by manual labour. It was not accurate, that these yunits did not take findly to marked work are rocational training.
- (3) " lastly, the lack of provision of hand-work, etc., at the rimary and lower second by stage proved to be another obstacle to the introduction of vecations' courses at the upper secondary stage. Children who were brought up in an entirely bookish curriculus could not exturally be expected to take very kindly to campal mork in the tenth year of study. And was really needed was a good eal of doing element in the school course right from its very beginning."

He fir we have soon discussing rostly the attempts made to introduce range work or providentional courses in the schools for general education. There is, however, come into existence a major of institutions called crift schools or trade schools designed to train stulents in specific verstions in order to meet the reads of the virious industries. According to Education in India 1802-1977, Fifth duinquantial Daview the position of these schools as it obtained at that time was as follows:

"These schools are not widely aproad in India, nor is there at present much indication of a demand for them among the artisan population. The Indian craftman ordinarily learns his trade not at a school but by appromise this armet it will, and there who establish schools shick are intorded as a subsetituta for approving the rest levent upon boing while to prove to the will are " " they can dive a better training in that on tiquier craft than in to be obtained in the workshop. Upon examination of the existing schools of this wind, some are found to be aining not no much at the improvement of an industry as at providing a course of training for boys and girls the would not otherwise be able to learn a trade in the ordinary way by apprenticeship. To this class belong the industrial ordinary, which foldil a charitable and labdable are or fa teaching a trade to children who have we other means of being placed out in the world."

The question of craft in Inhieralal schools tivere was fore rightly lawstod the art ation of Land Curson's Govern- k rant. Latindustria! schools in India were lacida; in definiteress both of mothed and object, that there and been no clair differentiation between mornal and technical studies. that they were not entering a non-any quaterned policy, that they were land that we recordinated with local industries and trade ' ' ' ' ' ' ' in impression they had pro meed upor industrial advention and devalopment had been relatively emill. Lord Curzon's government took active at pa to remady that a status of a findra. In the first place, they count that od a committee immediately after the lipid Conference of 1901. which held conformers with local mitherities in the provinces. The wasn recommendation of that consisted and the organization of ar purpostion quoter union which the mester artisens would ply their trades on the school premises. This was not accepted by the Government of India, who, in a resolution dated the 4th of January, 1904, urpposed whole time schools at injustrial control for those who had reached a certain stabdord of senoral education, and for the encouragement of local handlerafts half-time industrial orinary schools the course in which should be designed with special reference to to ching accuracy of workmanship and familhrising the purily with the best design and precessor applicable to that pereditary calling." A

dubacquest Constraint Territor report gradual increase in the manher of Review of these types. The viriation in the standards of training, resulted in overlaping, on the one hand, with schools of general education, and on the other, with technical schools. Proquestly individual institutions offered correct in widely different subjects of varying standards and degrees of value. Variations in terminology used for these schools in the different provinces, makes it difficult to give an account of their progress.

The rising tide of nationalism, intensification of the fracton movement and the apread of Swadeshi povement in the early twenties, led many national leaders to criticize the existing system of education and to demand radical changes in it. One of the changes demanded was an increased emphasis or the practical and vocational aspect of education. As Tala Lajort Rai wrote ".... the first aim of all publically imported education in India should be to increase the productive capacity of its citizens." On lith June, 1971, Gandhiji also wrote as follows in Young India:

There is comethin; madically wrong, specially for a nation so poor as ours, when parents have to support so many grown up children, and give them a highly expensive education without the children taking any ismediate return. I can so nothing wrong in the children, from the wary three left their education, paying for it in work. The simplest handicraft suitable for all, required for the whole of India, is undoubtedly returned this is our educational institutions, we could will these purposes, pake education self-expending, to in the

bodies of the children as well as their rinds, and news the wave for a complete Sycoth of "Greign yarm and cloth."

In the tranties the question of giving vocational bigs to education assime engaged the attention of the governments and attents were revived to do scrething in this direction.

In Bengal the conference of Education Officers half in 1925 recommended that "fhile vocational training might more properly be given in special institutions after the school course, some subjects which trained the hand and the eye and give scope for the creative joy of the artist should be introduced into the schools.

It has been reported in the 'Education in India.

1977-27 - Ouinquennial Review' that "In the United Frovinces the whole position regarding vocational instruction in schools for general education was reviewed by a committee and it was desired that the demand for vocational instruction could best be made by the institution of special schools. The Committee, however, recommended the development of samual instruction in second my schools on account of its general educative value. In 1975, wood work was introduced as a compulsory named training subject in middle vernacular schools and by the end of the quinquentiam, classes had been started and special named training blocks constructed to provide the accommendation in 15 District Toard Schools. It has also been reported that in this Oninquential Heviow that in Assam regular mans it training classes have been revolded in only 3 Government bigh schools, but rend-work of some kind is taught in the lower classes of all the secondary schools in the "rowings."

In this Havier the D.F.T. Madras is also reported to have stated "It must certainly be claimed that the experiments of introducing practical work into accordary schools has, on the whole, been successful. The general education of the publis has not suffered but has rather been assisted by developing to the full all the faculties of the publis. The aim of practical instruction as being educational and not vocational has been steadily kept in view and the various forms of hardicraft have helped to develop accurate observation and the power of concentration in publis, to create aesthetic tasts and to arouse an interest in manual work in arts & crafts among the rising generation during the most recaptive period." In Madras in 1927, 69 schools or centres with an attendance of nearly 13,000 publis were providing instruction in some hind of manual work including one providing instruction in some hind of manual work including, one work, retter one; summary, book blooks, believed, continue, potential continues.

"It has been stited in ' Aucotten in India 1972-"7 - "inth ininquancial Review" that "the cost not morthy fastures in the alterations in the curricule during the quinquinding have been the extended adoption of vocational and manual instruction in secondary schools".

The question of introducing mammal work and prover tional common also came up before the Hartor Consitted in 1920. This Committee observed:

> "It is true that in almost all provinces att apts have been pade in recent pour to introduce practical proved thom? instruction in the or limity schooles but it is evident that there has been as yet no clear ap reciation of the aim of such instruction, and jta maper relationship to the ordiners school course. In some provinces it is requised for ally as a form of ramm' instruction which is labout en part of general education of pupils; it is to be welcomed as such. In other provinces, although the instruction is definitely intended to be prevocational, it is imparted in the higher classes of gecondary schools to midls who, in the majority of cures are striving to qualify for admission into the colleges and have no intention thatever of make ine up of the instruction as a melinious to technical training. Only in a few case: In this Indimetion it narited in anot a manner and et mot a stage of school course that paralls are definitely encouraged, aft r reveiting a mitable reason of general adjection, to leav school in order to take up some practical occupation or to receive technical instruct on in a special institution. The undertainty of the and thought has been accentuated by the first that is most provisions, the industrial schools are controlled by a generate Ogpartment of Industrial and, in done cades, by a bird stor other than the limistor of Education, and therefore that they tend to be regarded almost us mivals to the ordinary achools".

Among other things, the Corrittee had recorrended:

- i) The retention in the riddle vertacular schools of nor- of the boys intended for rural pursuits, accompanied by the introduct on of a nore diversitied curriculum in these schools;
- ii) The diversion of nor boys to industrial and cornercial eleers at the end of the riddle stage, for which provision should be made by alternative courses in that stage, preparatory to special instruction in technical and industrial schools.

The Cantral Advisory Fourd of Education in their first meeting held in 1835 considered this question and

recorrended that at the lower quentity stage are down of the manual trains at the arms of the down this provide air at the down provided the part provide of areal to a substant are are pulled to the contract of the down the part of the contract of the co

"The Program of Iducation, 1993-37, Blaventh is an appropriate of the program ashipped till them in the circustration in the various province. There recents show that very little are religied to the field of introducing manual contents the schools. The common training techniques carporary, withy, aptroise and wavener, because of a positioning and contents are because and better, carlening and contents.

It will be seen that the region from least to leavel with the region of the second a made of the second of the sec

The state of the s

The year 1937 was a year of significance in the history of education in India. In this year Mahatra Janthi at retad writing very embatically about education. He assessed that for education to be sometimed in materially it Anima published the control of a same and the control of a same which should exovite the macleur for all other school instruction. In October 1937 the Wattonal Thucation Confor once thick mot ut his index the their months of Gardhill intar-mlin recovered that "the process of eduestion should contro round some form of named and productive work and that all the other abilities to be developed or training to be given should as far as possible he integrally related to the central handier of divine with due regard to the environment of the child," and that " this system of advection will be gradually the to come the remuneration of the teachers." " "cooks to then aprointed a committee under the chairmenship of Shri Zakir Hussnin which submitted their report in 1939 containing a schome of Hagie education.

Also in June 1937 A. Abbott and S.H. Wood submitted their report on Vocational Discation in India. This Deport recommended inclusion of remail work in the curricula of the primary, middle and secondary schools. In the words of this report, "Manual activities should find a pice in the curriculum not because the pupils or some of them will carr a living by namual labour because satisfaction of the desire to make or create is necessary to balanced development. It is indeed often the key to a boy's sevenity."

The schome of Basic education (also called the Vardha Schome) recommended by the Makir Musain envisaged that the learning of the child should be correlated with a productive activity (that is craft work), as well as with the physical and social environments of the child. The reasons for the introduction of craft work in the curriculum

of the schools as stated in the report of the Committee are as follows:

- a. Modern educational thought is practically unanimous in commanding the idea of educating children through some suitable form of productive work. This mathed is considered to be the most effective approach to the problem of providing an integral all-sided education;
- b. Psychologically it is desirable because it relieves the child from the tyrany of a purely academic and theoretical instruction against which its active nature is always making a healthy protest. It balances the intellectual and practical elements of experience and may be made an instrument of educating the body and the rind in coordination.
- c. Socially considered the introduction of such practical productive work in education to be participated in by all the children of the nation will tend to break down the existing barriers of prejudice between manual and intellectual workers, harmful alike for both.
- d. Economically considered, carried out intelligently tually and efficiently, the scheme will increase the productive capacity of our workers and will also enable them to utilise their leisure advantageously.
- e. From the strictly educational point of view greater concreteness and reality can be given to the knowledge acquired by children by making some significant craft the basis of education.

a. Spinning and weaving;

b. Carpentry;c. Agriculture;

d. Fruit and vegetable gardening;

e. Leather work;

f. Any other craft for which local and geographical conditions are favourable and which satisfies the conditions mentioned in the report.

The Committee farther recommended reorganisation of the training of teachers. Their recommendation included among others, the provision of training in craft work to the teachers, on of the accommendation in this respect suggested forming from in an early work to the teachers.

In 1938 the Central Advisory Beard of Education apreinted the committees under the chairmanchip of Shri B.S. Kher to examine the scheme of educational reconstruction incorporated in the Mardha Scheme in the light of the Wood Abbott Report on General and Vocational Education. The Kher Committee expressed the opinion that the Mardha Scheme was in full agreement with the recommendations made in the Wood Abbott Report so far as the principle of learning by doing was concerned. This activity should be of many kinds in the lower classes and later should lead to a basic craft, the woduce from which should be saleable and the proceeds applied to the uplean of the school.

Work on Basic Nducation was started in 1938 and 1939 in Bihar, Bombay, Control Provinces, Madras, Orista, U.P. and Delhi. But with the outbreak of the Second Forld far in 1939, this magrame received a great setback and test much programs could be made.

In 1944 the Renort of the Central Advisory Board of Education on Post Mar Educational Development in India was published. The Board recommended adoption of Basic education as the pattern of education at the primary and middle stages. The Board however as unable to endorse the view that education at any stage and particularly in the lowest stages could or shoul be expected to pay for itself, by the cale of articles produced by the pupils. The rost which according to them could be expected in this regard, was that sales should cover the cost of the additional materials and equipment required for practical work.

As remards the high school stage the Report recomanded establishment of two types of high schools, viz., academic high school and technical high school. In the curriculum for academic high schools agriculture was suggested as one of the subjects and in that for technical high schools, technological subjects such as wood and notal work, elementary engineering, measured drawing etc., and also agriculture were suggested.

VI. Todam on made made a made of the Minister and the Minister and the made of the made of

A new era started with India's attainment of independence in 1947. Basic education has been accepted as the pattern of education at the elementary/and schools are being gradually converted to this pattern. At the secondary stage, also efforts to introduce craft work have been intensified. These developments at the elementary and the secondary stages are dealt with separately below:

Blomentary itage

Programmes were started in the States to convert the primary and middle schools to the Basic pattern and also to establish new Basic schools. In some States crafts were introduced in the schools as a proparation step to their ultimate conversion to the Basic pattern. For example in Bombay in 1947-48 crafts were introduced in 524 schools. This rember was raised to 1315 in 1948-48, to 2108 in 1967-50 and 8816 by 1954-55.

its this principals of this Itlian Committee the Pan also: of montion oublished in 1950 a detailed syllabus for कुरकार्त कार प्रकार प्रकार कर है। इस कुर किर प्रकार कर कुर प्रकार कर है। जिल कर है ने कर कर है ने कर कर है ने tion of the collector or the contract annuals and 四月 · アカカ · かずいりま

> 1) intrope for an armore

Bardonine leading to amicelture; 11)

1111 Book arach incluite; paper and card-board arrang transfer from and anthony works

2 77 Transplace emission

w) Clay work and nottery;

WS) 可是 雪竹的野鸟的古鸟

7111 Y Time orate.

In this willalms the time to be devoted to craft work in sever reads has been all rested as collows:

> Grades 1-3 Two hours a day Grados 4-5 St hows a day Grades 6-8 3 hours a day

With the launching of the Mirat Mya-Year Ilan in 1961 the programme of Marie education became to be imp-In rind affectively in all parts of the country. Thuring this a "Jum a member of action or man just into a most by the mystade of state when he for the steen by the compared of the second of the second of the second of the second end or with a distance from the forer ont of India. There solvers anvisaged among other things: (i) establishment of The the training institutions and conversion of non-Bade traisling institutions to the Basic nattern; (ii) establishment of Wado schools and conversion of traditional type of actions to the Baric rettern; (111) training of orift teachers: (iv) introduction of crafts in tradifional tree dohnola.

Towar's the end of the First Myo-X-ar Plan the Government of India appointed at issessment Committee or Hamle Education. This Correction made a detailed exemination of the progress of Resideducation in the country and rades musber of recommendations. The Committee was of the view that the verses of Resideducation, on the woole, had not been vertally address. They recome to the view as no agreement amon, the views State governments regardeduced the views of the property of the views. ing the place of productive work in Wasie schools. In some Paric training schools and Masic schools, they reported, the draft work was truncated and mutilated. At places the schools were not adequately provided with craft autorial and raw material. The Committee also called for improvement in craft braining of teachers and recoppended that, "whatever crafts are selected for Basic schools as medium of & bude loorming." They also suggested that skilled traditional almal b craftesen should be associated with the to ching of oract www. work in Pasic schools and Pasic training schools. down rated and with mi

On the recommendation of this Counties the Government of India insued a statement of the concept of Paste circulter in which the position of craft work in Basic refrold for clarified. In the words of this statement:

"Basic advection, as concaived and explained by Mahatsa Gamdhi, is assentially an education for life and, what is more, an education through life. It aims at creating eventually a social order free from exploitation and violence. That is why productive, creative and socially useful work in which all boys and sirls may participate, irrespective of any distinction of caste or creed or class, is placed at the very centre of Basic education.

"The effective traching of a Baric craft, thus, becomes an evential part of education at this stage, as productive work, done under proper conditions, not only makes the acquisition of ruch related knowledge more concrete and realistic but also adds a powerful contribution to the development of personality and character and instils respect and love for all socially useful work. It is also to be clearly understood that the sale of products of craft work may be expected to contribute towards part of the expenditure on running the school or that the roducts will be used by the school children for getting a mid-day meal or a school uniform or help to provide some of the school furniture and equipment."

"An there has been controvery and difference of opinion regarding the position of craft work in Basic schools, it is necessary to state clearly that the fundamental objective of Basic education is nothing lers than the development of the child's total parsonality wite's will include productive efficiency as well. I order to ensure that the teaching of the Basic craft is a flotent and its educative possibilities are fully realised, we rust insist that the articles made should be of good quality, as good as children at that stage of their development can make them, socially useful and, if necessary, saleable. The acquisition of skills and the love for good craftsmanship have deeper educative significanc. Than perely playing with the tools and raw materials which is usually encouraged in all good activity schools. This productive aspect should in no case be relegated to the background as has been usually the case so far, because directly as well as indirectly, efficiency in the craft practised undoubtedly contributes to the allround development of the child; but on the other hand, never should the productive ameet be allowed to take precedence over the educational aspect. It sets up before children high standards of achievement and gives them the right kind of training in useful habits and attitudes like purposeful application, concentration, persistence and thoughtful planning. While it may persistence and thoughtful planning. not be possible to lay down specific targets for productivity at this stage, it should be the teachers! endeavour to explore its economic possibilities fully with the emphatic stimulation that this loss not in any may conflict with the educational aims and objectives already defined. However it has to be stated that, in the upper classes of junior Basic schools und in the senior Basic schools, it should not be difficult

for States to lay down certain minimum tergets of production in the light of carefully assessed experiences.

"In the choice of batic crafts which are to be integrated into school work, we should adopt a liberal approach and make use of such crafts as have significance from the point of view of intellectual content, troylds scope for programmive development of knowledge and practical efficiency. The hasic craft must be such as will fit into he natural and social environment of the school and hold within it the maximum of educational possibilities. The idea that has been vrougly created in the minds of some people that the mere introduction of a craft in a school, e.g., sidming can make it a basic school does grave injustice to the concept of basic education.

The minimals on productive workent crafts in basic common. Should not be taken to mean that the study of books can be ignored. The basic scheme does postulate that the book is not the only or the main avenue to knowledge and culture and that, at this age, troperly organized product; we work can in many ways contribute more richly both to the acquisition of knowledge and the development of remaining of additional the value of the book, both as a source of additional systematized knowledge and of phenouses cannot be demied and a good library is as equantial in basic school as in any other type of good school."

This concept of baric education has been accepted by all the 10.49 Boy may out to

During the Second Five-Year Plan further schemes, similar to those implemented in the First Five-Year Plan, were taken up. A scheme of orgentation of primary schools towards the basic pattern was also taken up. This programs orvisaged the adoption of the same syllabus in basic and non-haric orgenty schools and also the introduction of crafts in non-basic schools with the ultimate object of converting them to the basic pattern. All these schemes are being continued during the Third Five-Year Plan. It is estimated that in 1950-61 about 195 of primary schools and 30% of middle schools were of the basic pattern.

The Mational Institute of Basic Education, established by the Government of India in 1956, has been devoting part of its attention to the problem of teaching crafts in the schools. Among its various activities in this connection the Institute conducted one study of the educational potentiality of the crafts! which involved a determination of the suitability of the various crafts according to specified criteris. The second study of the Institute suggested targets in apiming, weaving and wood work. The Institute has also been employing the suitability of crafts other than the traditional crafts such as epiming, weaving, wood work and agriculture. Another series of craft studies of the Institute make detailed surrestions regarding the teaching of fibre craft, become craft, doll on fits and craft work from waste materials.

Secondary Muchtion

The Generalary Glucktion Cornission, which submitted its report in 1953, record and that ere the made a computer or in the secontary stage the Considering and a diversification of corress which envisions a community for all at dente and seven groups of optional subjects. The communication recommended by the Cornission included one craft to be chosen from the following list (which prints be added to according to media.

- a. "pinning and weaving;
- h. God works
- e. Matal works
- d. hundard ng
- a. Patiming
- e. Typography :
- g. brkshop practice;
- h. landys, wordle work and entroleases
- 1. Mololli.

The optional subjects recommanded by the Commission is alread agriculture.

In the 'Draft Tylking for Secondary Gehaels' the All Indian Council for Secondary Giucation recommended the following orafts for the propriety schools:

- a. Hand apiening and Havings
- b. Tood works
- c. Motal works
- d. Our lend nat
- e. Tallown;
- f. Sawing. Wedle and Imbroidary works
- g. Louthor works
- hi Clay modelling and Japler Maches
- 1. Workshop Practice;
- 1. Printing Technology.

The above several paragraphs make it clar that furing the period from 1947 efforts on an all India hasis have
been made to make craft work an integral and important part
of aduction at the elementary and the secondary stages.
The educative value of the craft work and its role in child
development have been universally acknowledged among the
educationists and the State Governments. Concrete plans
for the achievment of this reform have been under implementations under the five year plans. We are still for away
from the target of introducing orall work in all the schools
in the mountry in a systematic way because of the sheer
magnitude of the problem. Such a reform will take nome time.

A number of steps have been taken by the government to develop haniterafts apart from their place in achors. All India Boards, such as Fhadi and Village Industries Board and Handloon Board etc. have aims and activities that are largely of economic type, although training programmes are included too. These training programmes are of

Chapter- IV.

A SA TO SA TO THE TOTAL STATE OF THE SAME OF THE SAME

gart-A: Elementary School Level

The national patternfor elementary education in India as accepted by our state and Central Government is basic education. This means that crafts form a compulsory subject in all elementary schools run on basic pattern. At present we are in the process of prienting and converting our elementary schools towards the basic pattern. Complete conversion is likely to take some years. In the meantime it may be fruitful to know how far we have gone and what is the actual status of one of the aspects of basic education namely, craft education in the elementary schools.

Information for this section of the report is mainly derived from two sources - analysis of the syllabil prescribed in various States by the Education Deportments (for the syllabil studied see appendix V) and information received from State Deportments of Education and some private non-official egencies; to a detailed questionnaire (see questionnaire in appendix I). At this time information in response to the questionnaire has been received from only six States. Information sout Maharsentra, Gujerat and Utt r Pradesh has been received from the State Departments of Education. In the case of Madras, West Bengal and Andhra the information has been supplied by various organisations in these states that are concerned with Basic education.

Duration of the elementary stage:

As is indicated in Table I below the duration of the elementary stage in the several states varies from 7 to Syears.

1	<u> Fable: 1</u>		4
Andhra	ADBAM	Bihar	Gulerat
1-VIII	I-VIII	I-VII	I-VII
Jameu & Kashelr	Kerala	led hya Fr adesh	Madras
I-VIII	L-VII	I - VIII	I-VII
name universitation in the contraction of the contr			12
Moharash tra	Mysore	Oriasa	Punjab
I-VII	I-VII	I-VII	I-VIII
Kajesthan	Utter Prace	oh lest Bengat	Delhi
I-VII		L-VIII	I-VIII
- Himself Princesh	TABIA	The state of the s	and the property of the second

The pattern of 8 years elementary school seems to be more widely accepted. However, in % of the 18 States the elementary school is of 7 years duration. In most States in which the duration of the elementary stage is 8 years this period is divided into the junior primary, extending over classes I to V, and the middle stage extending over VI to VIII. In some other states, for example, Maharashtra, Gujerat and Mysore where the education of the elementary school stage is of even years, the junior primary stage extends over classes I to IV and the middle stage covers classes V, VI and VII. The entire elementary school period covering classes I to VII is known as the primary school in thece tates.

Types of syllabia

Some tates retain different syllabil for the basic and non bacic schools. The trend seem to be towards a common syllabus with the difference that basic schools are also required to practise some organised c aft work. Fewer than half of the tates have now evolved integrated syllabil which are activity-oriented and which make some of the basic school activities obligatory for all schools. Of the syllabil amlysed for purposes of the present study, the syllabil for the states of Bihar, Madras, Mysore, hajasthan, helpi and Hauchal Fracech were integrated syllabil.

Position of crafts in the elementary achools

The following table reveals for each State whether crafts are taught at different Stages. If taught, whether these are compulsory or optional.

Tables 2

大海南西西西南部市西西西南部市市西南部市市市市市市市市市市市市市市市市市市市市市市	THE PARTY OF THE P		CONTRACTOR OF THE CARACTER IN	The state of the control of the cont
	hanic	LOR-DOXCE	Number 1	Middle
Andhra	C	C	C	C
ASBOR	C	C	C	C
Bihar	C	C	C	Ĝ
Gujerat	C	C	C	C
Jamu & Kashmir	NIL	MIL	NIL	-7. 7.1.
Kerala	C	C	C	C
Madhya Pradesh	C	G	Ĉ	
Madrae	C	C	Ĉ	Č
Maharashtra	C	O	C	O .
Mysore	C	NIL	č	NIL
Orisea	Ċ	C	Č	C
Punjab	C	č	C	č
Rajasthan	Ğ	Č	č	**************************************
Uttar Pradesh Vest Benga	C	Č	Č	C
Tripura	C		C	
Delh1	C		ā	40
Mimachel Prades	ih C	C	Č.	

compulsory. 'O' stands for optional and 'HIL' denotes that no craft work is done. '_' denotes uncertain or vague information).

At the middle stage, crat is compulsory in basic schools. It is interesting to note, however, that the Jacom and Kashair syllabus asker no mention of basic schools and for classes I to VIII craft as a subject has not been prescribed. It is possible that the latest information about this atote is not available with us. The syllabus analysed gives no arte of publication.

In the middle classes of the non basic schools craft forms a compulsory subject in nine States. Only three States mention that craft is not practised in the middle classes. About majesthan and telhi it is not possible to make out whether or not craft is taught as a compulsory or obtional subject in the middle classes of non basic schools.

Objectives of the teaching of craft in elegentury schools:

The syllabit of the different thates for elementary achools do not in many cases make any mention of the specific objectives for the teaching of crafts, although some syllabit include general statements of this subject. For example, the Madhya Pradesh syllabus is admittedly/on the lines of the craft-centred syllabus of the Mindustani Talimi bangh. Some other states, for example, andra, Gujerat, Madrus, Maharashtra and sest Bengal mentioned some objectives of the teaching of crafts in the elementary schools in response to our questionnaire. These objectives as mentioned in the responses to the syllabit or in questionnaire/referred to above, are here summarized in table 2 below.

Tables 3.

Objectives of the teaching of craft in elementary schools

makes the same property of the same of the		
o Basic	schools (
		Non-Basic schools
·····································	tall you was a transmission of several sales registers of the sales of	4
o Junior i	Auth I am Birth	AN ADDRESS OF THE PARTY OF THE
M CANTON M	enlor '	latelle like
A i		the company of the property of the first
y I	i	A â
Market Broker Street and a companies of the party and the party of the		<u> </u>

No specific objectives of craft teaching have been mentioned except that the, help the students i serning a living and in preparation for future life

- 1. To create vocational bias, to stimulate initiative and to foster a sence of dignity of labour.
- 2. To equip the pupil with such reasonable skill as to enable him to produce useful articles to meet the basic requirements for his life as well as for his school community.
- 3. To offer opportunities for acquiring correlated know-ledge in different subjects.

To give necessary training in craft to be self-sufficient individually or collectively in the matter of fundamental needs of a human being

1. To develop More attemthe dexter- tion is ity of fin- paid to gers of the tidiness & children and finish of their powers the prodof observati- ute, the on and creative main imagination. objective being the same as for the junior cla-3508.

Same as for the basic schools.

Seme as for besic schools

1.To give children of these stand-ards op ot-tunity to practise the crafts of simple nature according to their capacity and to produce simple articles of utility

- 1.To give all pupils scope for self-expression.
- 2.To help them to carry out their ideas by means of simple arts and crafts.
- 3. Training in creative and

o . An emblede sidde formalization of the control o

2

3

4

2.To develop productive akills.

1

- 3.To provide opport mits for creative self-expression.
- labarashtra 1. It is a medium of instruction
 - 2. It trains mind and body
 - It develops good qualities such as cooperation, sportsaunship.
 - 4. It brings all-round development of the child.

rest Jongal

- 1. To help in total edu-
- To help in creative relfexpression.
- To help in productive efficiency and in manipulating skills.
 - 1.In senior basic achools productive aspect is stremsed more than in junior basic schools.

It will be seen from the table that the objectives of the teaching of crafts are the same for basic as well as non-basic schools. No State has mentioned separate objectives for the two types of schools. The objectives in some States specially in Kerala, and Madras and Sest Bengal, vary a little in the primary and middle classes of the elementary achool. The information available under this head, however, seems to be inadequate for drawing any general conclusions.

It suggests, however, that by and large the objectives of teaching craft in the elementary schools are:-

- (1) To develop the finger dexterity of the children;
- (2) To develop productive skills
- (3) To provide opportunity for creative self-expression.

(4) To develop such traits as cooperation, initiative and a sense of the dignity of labour.

Targets for Graft work

Crafts being a compulsory subject in the basic schools some targets of achievement have generally been laid in the syllabit. Since craft is not an examination subject in many of the states for non basic schools concrete targets so not seem to have been laid down in all cases. The targets of achievement that are suggested vary fom state to State. Some follow the targets laid down in the syllabus of the Sindustani Taliai Sangh. Different crafts tend to have targets that differ both quantitatively and qualitatively. The Mational Institute of Basic aducation, published in 1960 a study of the targets for craft work. Some of the observations made as a result of this study may be usefully quoted here.

"The salient points emarging out of the study of syliabii may be mentioned as follows:

- (i) Torgets are laid down in relation to time available for craft practice.
- (11) The number of working days of school could be increased in the bigher grades.
- (iii) The quantity targets should be based on the time devoted to craft and speed targets.
 - (iv) The quality targets of spinning are in terms of count, strength on evenness. Hange targets are given in (count) quality of yars.
 - (v) The targets for weaving are in terms of quantity and speed.
 - (vi) The targets for wood work are indicated only in terms of articles made.

In the analysis of current proctices to reported by questionnaire in the NIBE study the following points were made:

- 1. Spinning and weaving, wood work and agriculture are common prevalent crafts.
- 2. Targete in craft are proposed at three levels States, region and School.
- 3. Target in craft is defined in terms of quantity, quality of production and time taken to perform contain process (speed). In a few States target is proposed in terms of money value.

- 4. In spinning the achievement in quantity is less than 50% of targets of all grades and it is still less for grades I and II.
- 5. Speed targets in takli spinning are aimed at in pli grades and charkha spinning is introduced at III grade.
- 6. Quantitative targets in spinning are given in terms of count in all schools and count and strength in certain cases. The schools have range targets in this aspect instead of specific targets. The achievement in relation to targets is quite fair.
- 7. The contribution of time factor to the craft out ut is not evident in these schools.
- 8. The contribution of other factors such as pupil-teacherratio, craft qualification of teaching personnel, the incentives in the forms of risplay in museums, exhibitions, prize award, etc., could not be studied further.
- 9. The model range for number of working days is 221-230.
- 10. The practice of daily allotment of time is such as ', ' half, one hour for I and II grades. One to one and a half hours for III and IV grades and one and a half bighow to two hours for high grades.
 - 11. In weaving, quantitative cuta is indicated as sq.yards of cloth and mature of warp is shown in quality aspect.
 - 12. In wood work, targets and achievements are stated only in quantitative terms. However, in these cases the targets do not give all the required details and hence lack in specificly cally.

This 1960 study recommends the following criteria to be kept in view while formulating targets for craft work:

- 1. The targets should be consonant with the objectives of craft in basic education.
- 2. The z targets should keep in view the age level of pupils, there should be graded increase in the difficulty of the processes involved in crafts.
- 3. The targets should take into account the time factor available for craft practice, i.e., the number of school days and the time devoted daily for practice.

300 marks (400 marks for those who do not take Englishes en additional optional subject), in classes 6-7 are tasigned for craft work. These marks are out of a total of 1,000 marks. The other syllabil are silent about the details of assessing craft work. The little information gathered from the syllabil and the information supplied by come of the States in response to our questionnaire, has been consolidated in table (5 given below)

rable: 6 Assessment in Craft work

我就是我们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们	A Total A					
titte	Jenier Dake schools	lion-Bulle Primary schools	contor Water schools	Non-Araic middle schols		
Andhra	I. B	ř.	I/ I' H			
Bih er	1/ 1-4% T P K	1/ W-40% T P R	1/ 4-40% T P R	I/ d-40% T P K		
Gujorat	1/ E W-35% T-20 mark r-40 mark H-40 mark	t a	N-35% T-20 marks P-40 marks R-40 marks			
Mudram	I/ I-20%) P-80%) R		1/ 1-20% 2-80%			
Muharashtra	I/ K #35% T20%) P40%) R40%)		I/ E #-35% T-20%) P-40%) R-40%)			
Orissa	1/1×	1/7	1/ W-72%	I/		
	*	*	P-JOMarka R-20 merka	P-30 marks		
Uttar Prades	h I/ %-16% T-16%) R) R	I/ W-16% T-16%) P	1/ W-16% T}16%) P	1/ W-16% T}16%} E}		

WORKS A SON RESON

(Note: /denotes that craft is an examinatin subject.

I-denotes that internal examination is held in crafts.

t-denotes that external examination is held in crafts.

w-denotes the weightage given to craft work in the annual examination, i.e., the percentage of the total examination marks allotted to craft work.

T-denotes that examination is held in the theory of crafts.

F-denotes that examination is held in practical work in crafts.

R-denotes that records of craft work are maintained.
Where some marks or percentages are written against
TPR, they denote the total marks or percentage of marks
allotted to each of the se.)

The table shows that craft is an examination subject in elementary schools run on basic pattern. In Bihar, Orissa, and U.F., craft forms an examination subject in all the elementary schools. The reason for this in U.P. is that there are in that State only Basic schools. In all the States the examination conducted in crafts is internal examination but in Gujerat and Maharash ra the internal examination is supplemented by an external examination. About the weightuge given to craft work in the annual examination, the information has not been received from Andhra and Madras. In other States, the weightage varies. The maximum weightage 40% of the total humber, is given in Bihar. The weightage in Gujerat and Maharashtra is 35%. In sest Bengal 20% of the total marks are allotted to craft work in primary classes and 30% in middle classes. Comparatively small weightage, only 7% is being given in Orissa. The general pattern of assessment of craft work sinvolves theory of craft work, practicals in craft work and the records of craft work maintained throughout the year. The weightage given to these three components in the assemment of craft work, however, varies from State to State. The maintenance of records of chaft work seems to be a commonly accepted practice in all States although the records are not taken into consideration in the annual assessment of craft work in every State.

Accounts for individual states based on the analysis of the syllabil and the responses received from some states are given in appendix V.

Part N : Mecondary School Level

F15748 29485

An attempt is made in this nart of the chapter to survey the existing positions of craft educ ation in the secondary schools. There are two sections. Section I is based upon the analysis of the syllabii of secondary schools and some information received from a questionnaire submitted to the States. The Syllabii for secondary schools relate to different types of schools such as high schools, higher secondary schools, multi-purpose schools and post-Basic schools. It was not possible to obtain the syllabii for all types of schools from eachState so that in some cases informed are based on the syllabii available in the local libraries. For some States more than one syllabus was studied. It was not possible, however, to determine the extent or the relative number of schools in which the various syllabii for a particular State were at present being followed.

The first section of the cresent chapter does not depict how far the syllabil and the expectations of the State Stuction Departments are being actually practised in the schools. Section II, however, does give an idea of the actual craft-practices as they obtain in the secondary schools of the States. This information comes from an analysis of 220 replies received from the secondary schools in different States in response to a questionnaire (the questionnaire is reproduced in appendix II).

Section I : Ana vais of Syllabii

At the secondary stage of education slightly different types of syllabit are available from high schools, higher secondary or multi-minutes high schools, technical high and higher secondary or multi-minutes high schools. The high school or matriculation stage usually consists of class IX & proceeded by the elementary (primary & middle) stages of a years. The higher secondary or multi-purpose schools usually have classes II, X & XI. In Mysore, Crissa, Cujarat, Maharashtra and Madras the higher secondary or multi-purpose high school stage is comprised of classes VIII, IX, X & XI proceeded by an elementary course of 7 years. It is not known as to what percentage of schools in a particular State follow the higher secondary or multi-purpose or old high school pattern. It may be useful to keep in mind, however, that the general trend is to shape the secondary education on the pattern of multi-purpose high school or higher secondary school as recommended by the Secondary Education Commission.

Status of Crafts in the Secondary Schools:

In all the higher secondary school syllabil or multipurpose school syllabil mentioned in appendix VI excepting/that of Delhil braft occupies a pleasa a compulsory subject. In addition to the compulsory craft subjects the optional or elective papers include a first craft subjects

such as, an a widulthial aroup, crafts aroup or a technical group dealing with engineering subjects. These can be offered by a candidate as elective papers in the diversified gehams. In the cyllabil dealing with high school technical examinations rectly engineering subjects including, of course, a few craft subjects, are compulsory. The high school syllabil, with the exception of Orissa, do not give any compulsory plact to craft work. Either there is no craft work at all (excepting girls' schools where home science is superally a compulsory subject) or crafts can be offered as one optional paper chosen from among five or six.

The status of crafts in the secondary schools as inferred from the syllabil and the inferration received from some States is summarised in table 7 below.

Status of Crafts in the Secondary Schools

r gr for dy s m

o tate	The state of the s		Tohool	the season which their local date about quick shade their		
	nenoola	ill Fixt For.	achoola	gonoola		
ecispo anglido rigilizio recordo giudicar allerest	新叶桃 的名词 数据的 心神	क्षेत्रातंत्रं प्रत्यंत्रे शक्तात्रः वृत्युक्तः शेत्रंतवे नहित्यं हर	aine handa Afriki biraké egyiné pazda vásar skazab	Serial words (BIGE TEXTS) Serial réculo ARTIS (Alba	980	
Andhras	C	data	C			
Gujarnt	465	GOAR	G	&		
J. 2 K.	71.1	Manar	anii i	- Operation		
Kerola	activite	enstalp	G	rguide		
Mathya Trade	o de	CØ	ná	***		
Madray	C (Ath		lass) –	C		
	olar	7)				
Maharashtra	O	AQN-	*****	蝉		
Mysore	epite.	С	G	News		
Oricea	C	G	松 帶	G		
Punjeb	***	G	ROGER			
Rajnethan	9845-	C	C	Altito		
Utter Prades	th O	0 🗱	o	Apple		
West Hengal	O	C	C	C		
Delhi	0	OF	elleride. derrole skinch statis novel tenne citain schell			

^{* (}C stants for eraft as a compulsory subject; O stands for exaft as an optional subject; Wil denotes that no crafts are practised; - denotes that the position is not known.)

While the table is largely self-explanatory, it might be mentioned that in the State of Madras craft forms a coapel sery subject in class VIII of the high schools as well as higher secondary schools. For other classes of high schools and higher secondary schools it is an optional subject excepting for the candidates offering the academic course. In Most Rengal craft work is compulsory in girls high schools and optional in boys' high schools. In high r secondary schools it compulsory but is taught only in class IX.

Objectives

As is clear from the above account, craft forms a core subject in the higher secondary scheme being gradually adopted in the States. The specific objectives for craft teaching have not been clearly stated in rost of the syllabii. But since crafts have been incorporated and introduced in the new syllabii of the industry secondary scheme at the suggestions of the Secondary Education Cormission, the objectives as given in this Report are restated below:

" le e meet this (secondary) school to devote spocial attent; on to craft and productive work and thus redress the balance between theoretical and practical studies which has been upset for many, many years. It will have a lively appreciation of the basic bruth that the education of a mind is esquittally a process of revivitying in it the latent values contained in the goods of culture. In this process, educa-tionally productive work, both intellectual and practical, plays a very important part; in fact it is the finest and most effective medium of education. It will, therefore, be reflected both in its curriculum and methods - that is, on the one hand, different practical subjects and eraft work will find a place in the curriculum on the same status as the so-called 'liberal' studies and on the other, the teaching methods will martake of the nature of activities and stimulate independent work. Every well established and reasonably well financed school will have workshops and craftrocks where students will learn to handle tools and to
fashion different kind of materials into form. They will not be morely 'flirting' idth something called hand-work, which ofter offer little atimulating challenge to their practical aptitudes, but will actually be confronted with real jobs of work which will gemuinely stretch their powers. These craft rooms, workshops (and farms), no doubt, are specially meant for students who offer practical subjects like agricultura, engineering, demostic science, etc., but they will also provide suitable practical occupations for all students including those who take up sciences or humanities or art subjects. Likewise, the school laboratory will not be a toy-affair, where a few simple and carefully played experiments are performed under vigilant eye of the trucher who sees that the prescribed routine is followed. It will endeavour to give them scmething of the thrill and the joy of discovery and the educative experience of Jearning through trial and error. It would be mon; to impriso that practical work of this type cannot be correct out in secondary schools." (89.218 - 219).

Again while emphasising the aims and objectives of the introduction of crafts or vocational bias in the secondars schools, the Cormission stated: "So far as the second major alement in our nutional situation is concerned, we must concentrate on increasing the productive or technical and vecational efficiency of our students. This is not merely a matter of creating a new attitude to work - an attitude that implies an approcession of the dignity of all work, however, 'lowly', a realistion that self-fulfilment and national prosparity are only possible through work in which every one must participate and a conviction that when our educated men take any piece of work in hand they will try to complete it as afficiently and artistically as their cours permit. The erration of this attitude must be the function of every tagcher and it must find expression in every activity of the Students must acquire a yearning for parfection and learr to take prile in doing everything as thoroughly as they can; likerdee teac era should learn to reject, firmly but with sympathy, all work that is alf-hearted or alipshed, or casual. We shall revert to this point again in our discussion of educational methods. Side by side with the development of this attitude, there is need to promote technical skill and afficiancy at all stages of aducation so as to provide trained and officient rerronnel to work out schemes of industri I and technological advancement. In the past, our education has been so academic and theoretical and so diverend from practical work that the educated classes have, generally speaking, failed to make enormous contribution to the development of the country's natural resources and to and to rational wealth. This must now chango and, with this object in view, we have recommended that there should be much granter emphasis on eracts and productive work in all schools and, in addition, diversift ation of courses should be introducêd at the secondary stage so that a large maber of students may take up agricultural, technical, commercial or other reaction? courses which will train their varied aptitudes and emple them either to take up vecational purguits at the end of the Decomdary course or to join technical institutions for Arthor training. These measures will, we hope, result in equipping educated young men - paychologlenly and wractically - to undertake technical lines and raise general standard of efficiency, thereby helping to increase national wealth and ultimately to improve the general standards of living" (mge 27).

These quotations from the Report of the Secondary Education Commission make it clear that the purpose of including compulsory eract work in the higher secondary schools was not to prepare children for a particular vocation in life but to make them vocationally minded and the help their all round development. The conception of craft work as general education is also supported by the fact that even in the technical and vocationally oriented courses of the agricultural high schools of Guiarral, some crafts are included along with other core subjects like elementary mathematics, social studies and general science. This is in addition to specialization in a referrer with teaching according to the lysome

syllabus (No. 6 in appendix VI), it is "Not to make the children vocationally efficient but only to make them vocationally minled and to devolop the latent abilities of the children. It may not be possible to make the children work-tionally efficient in the five periods of craft instruction in the VIII standard and in the ten periods of instruction in the standar's Til to II. The subjects provided under electives or diversified courses of study are mount to rake the purils vocationally endcient. A public is at liberty to take a compulsory subject related to the optional group which is studed by him to make him vocationally more efficient. The compulsory craft: are meant to afford opportunities to children to use their hands in confunction with their head or mental powers in order to develop their tractical skills and to bring out their latent mechanical or vocational aptitules, ability to handle tools efficiently will instill confidence in a child in the use of its montal powers, for ability to use a tool or to wor out a theorem in mathematica is motivated by the same mental process. *Crafts will also provide some relaxation to the children from purely mental work besides developing their skill and aptitudes. Therefore, a study of craft; under compulsory "A" group of subjects is a stop in the right direction."

The list of the crafts prescribed in the higher secondary multi-purpose schools is given in table 8 below. The States prescribing each of these crafts have been indicated by a tick (/) mark against the respective crafts.

TANDS 8

le of Graft	an altern Toda Bridge Carl Alpha		Marine .	n # 14	ing.1:	ار در البادر الاسلام. المال المال المال	معدد معدد مارگران ا	**************************************	で	e toda sino cuto selv. I
	1990 128	1 4 g as	A STATE OF THE STA	7 4. 4	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Parcia	and make one can sink fall	The Mar	n-technicus (n. 1. villen Si 1. v I n. 425 — Bi	TE SO OF
nd spinu- g and aving.	ilik azak zen esa	1	/	1	e took sich som		/	/	on 400 to	The state of the s
od work		1	/	1	1	1	1	/	1	/
al work			1	1	/	1	1	/	/	/
dening			/	1	1	1	1	1		,
lloring	/	1	1	1	1		/	1	1	1
ither work			1	1	1	/	1	1	/	/
dng,needle ift and om- pldery.	1	1		/	/		,	/	1	/
y modell- ; & Fager the.			/	,	. /	,	1	,		,

ane of Craft		and Herr Bells	*†mma	<u> </u>	ing An	which	negac	ribed	** ** **	kalasi dagan dinina
	Anthra	arat	a la	, 0 6	rag	ore	dat	est- han.		, , , , , , , , , , , , , , , , , , ,
	green track track where	. And what with	new sen ma	r kok qua wa	. 69,4 4 ,54 69,53	i (GOM) sugani disent	s opport united regard	, 1944 470 42 <u>0</u>	100 EEO 500	
rinting mehnology.							1			1
orkshop ractice.				/				/		1
ndio Mech- mic.		1								/
ee-keeping			1							
attan work			1			/				
lugar came						/				
llacks mithy.						1				
bokbindine printine					1	/			1	
aundry						/				
hotography				1		1				
lectrical Tremen					/	1				
loundry						1				
enerals Melmerine								/		
tenotyping								1		
ooking	1	1			1			/	1	
liper work	1			1						
friculture		1		1					1	
Am Art & Fast		,								
plok making				1		1				
ypography		1		1						
esketry &						_				1
ope making				/		/		(Conf	:a)	

me of Craft	Link Office Link of State of Contract of the	i o. a	istand - Safw - ingention	E Same of Auto and Auto and	36.77	han	- 15 m	u o
ngay anggan menghan menggan seperah se	ecidis disetto solves store editoris	inter Allia Strab	sgivis arre- pinns	erre was sure	Alder Windo Grant	and the sea	成性 经收 机	ANGU METAN 1874
ap naking		/		/				
tters		1		/				
ittery and remics.				/			1	
bacco cul- lation				/				
offee oltivation				1				
alk making plaster work	•			/				
mboo work			•	/				
dr work				/				
lsciculture				/				
indal wood, arving and vory work				,				
il pressing				1				
yeing and ringing				/				
lementary griculture ngineering				/				
eneral ngineering				/				
urnituro esign and stimating	,							

The three most popular crafts are hand spinning and veaving, wood work and tailoring. Next come metal work, sewing, needle craft and embroidery and leather work, gardening, clay modelling and papier mache also have been proported by all the States excepting Andhra, Gujarat and U.F. There are, however, slight veriations arount the diffement States as regards the number of alternative crafts suggested as well as

the classe: In which they are taught. In Kerala, for include, crafts offered under committeey care subjects include gardening and has keening only. Other crafts could be taken as one of the optional papers. In Vest Bengalagiujarat radio work is also included in the list. In Mysore a considerable number of other crafts, such as black smithy, fitters, book binding and printing, laundry, photography, electrical idre-commit, foundary, pattern rading, sugar care, cotton cultivation, eccent cultivation, coffee cultivation, estanties, tobacco industry, care of farm aminals, etc. are included. It is clear that some of these wich as, photography, electrical whromen, no term making atc. are more of a technological nature than they are crafts. Similarly, in Pajasthan steno-typing and general engineering, are included in the list, so that a student could take officer as one of the compulsiony core subjects under crafts. In Orisa, alternatives like repairs and raintaneous of reciprocating pumps, clocks, cycles, patromax lamps, are stains unding, house wiring, cane work, brick work and tile making are also mentioned. In the Mysore syllabus it is mentioned that one or nore craft may also be practived if they are provided in the school.

The crafts actually practiced in the schools of these States can be seen from table \(\lambda \to \taken \t

Time Devoted to Graft 'lork

Because rost of the syllabi amilysed do not restion the exact time to be allotted to craft, how much time is devoted to craft as a core subject in the higher secondary syllabi of various States was not discovered. Information about the allotment of time to craft work derived from some of the syllabi as well as few responses to our questionnaire received from the States, has been summarized in the table given below:

State	High Tahrol	s llr. Secondary	Multi-purpose schools	Prat-Basic schools
新田 		ting was after sealy that was title to be	work which have easily and partic study apple points.	والما بالمارة والأن المارة ووال
Andhra	45 Mts.	***	4 periods of 40 Mts. each	age .
Gujarat	1642	3-4 perâots	10-12 periods	**
Karala	1465	digits.	70 parioda parya	er -
Madras	a partoda	talieb	49W	24 periods
Mysore	201 8 -	18 hours	lè hours	459
Rajasthan	Gent	Thus:	6 periods	•
U.P.	4 hours	4 hours	4 hours	iller.
W. Bengal	diage	Alogia	3 hours	16 hours

It will be seen that only eight itates give this information and that foo is not complete. Some of the States have not stated the time in hours and it is difficult to estimate the duration of periods. Hence, any comparisons or corelisions become difficult.

the state of the s

The waightage given to craft work in grade to grade promotion as well as in the first examination for the stage could be judged to some extent by determining whether or not craft in an experiment on subject and how many marks out of the total members are assigned to it for the secondary examination. Most of the syllabil have not rentioned anything about this assect of the organisation of craft work in schools. Even when some States sumplied this information in response to our questionnaire it was incomplete. That facts we have about the keep weightage given to craft work are surrarized, below in table No. 10.

Table 10.

Mame of St te High School Hr. Sec	mary Multipurpose Fost-Basic
a all all all and a second and a	I P R
GUJ 1 'AT	4 (35%) W (35%)
MADHYA PRADESII W (10);\$ \$p}+ x \$n .)
ACCIEO ACCIEO)% pp a X ·)
PANJAU W(50 property out of total 400 property of the state of the st	of a l of arks ted to lsory

(Contd....)

```
Name of State High School IIr. Secondary Multimurpose Post-Basic
RAJASTH . W
                            V(100 out of
                              total of 500
                             allotted to
                              compulsory
                              subjects)
                                 T (40)
                                 F (50)
                                P. (10)
TTAR
PRADE H
              W(33 % - 1s
                             W(331 - 1s
               treated as
                              troated as
               equal to
                              ranal to
               two sub-
                              two sub-
               (estoot
                              incts)
                                鲊
                T
                R(Not con-
                                R(Not con-
                                  siler din
                 sidered in
                 anmunl exa-
                                  anmual exa-
                 mination)
                                  mination)
TUEF
                                 R
BIMOAL
```

(Note:

D 5nd

denotes that craft is an examination subject.

I denotes that Internal examination is held in craft. I denotes that external examination is held in craft.

W denotes the weightage given to craft work in the annual examination i.e. the nercontage of the total examination marks allotted to craft work.

I denotes that examination is held in the theory of crafts. P denotes that examination is held in practical work in crafts.

R denotes that records of craft work are maintained where some marks or percentages are written against T.P.R. they denote the total marks or percentage of marks allotted to each of these.

Section II - Analysis of Guestionneire

Introduction

This section of our report on craft is the secondary schools of India is based on the replies submitted by such schools to a questionnaire prepared and issued by the Directorate of Extension Programmes for Secondary Education. High schools, higher secondary schools and multipurpose schools responded to the questionnaire which included 56 items relating to the various aspects of the teaching of craft. Among the items were some relating to the status of craft in the schools to the objectives of teaching crafts, to the craft curriculum, to the physical facilities available, to craft teachers and their teaching and evaluation practices. A copy of the questionnaire appears in an appendix 2.

Most of the questionnaire items were designed to elicit 'yes' or 'no' answers. There were a few open-ended questions asking for special features of craft teaching in the schools, or for steps being taken to promote craft work or for suggestions for the improvement of craft instruction.

Replies to the questionnaire were received from all the states and centrally governed territories excepting Punjab, Assga, Manipur, Tripura, Pondichery, Andasan and Nicobar islands. Responses from Delhi and Kashwir were few (4 and 5 respectively) and have not been included in this report which deals with 12 states: Andhra, Bihar, Gujrat, Kerala, Madhya Pradesh, Mairas, Maharashtra, Mysore, Crissa, Rajasthan, Uttar Pradesh and West Bengal. The number of replies from the various States are given in Table N. This table gives separate figures for each of the 3 types of secondary schools which are subdivided into schools.

ZABLE \\

现实的企业的 不可以不可能的 un vanen underwee	14	teh 3	abccla	dramatica.	1400 a	Corcelo	i Mill	inar.	012 St	A STATE OF THE PROPERTY OF THE
	Poys	HXI	abecla a Mixel	Beyn	Hrl	Parcels Taxol	Hoys	dirlo	ilixo!	Tak 'At
AND THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED ADDRESS OF THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRESS O	ESSATE CHATAIN COMM	effilikanske kape Wate delk	ing the state of t	医软件性系统。	o interestation of the second of	independent verificari i	CR. #ET.ALT-EMBLESSEEFT I	REGULATION OF THE SERVICE	s emboring p. penggggryd das	· 14年1月1日 - 14年1月1日 - 14年1月1日 - 14年1日 -
ANDHRA	13	7	18	3	3	12	16	4	4	80
DIHAR	13	2	17	1	0	7	5	L	4	50
DELICI	•	450		4	1	479		ass	43P	.5
OUTRAT	. 7	7	30	L	l	Õ	Ō	Ō	4	50
IMNU & KASHMI	RS	. 0	.0	100	1	Q	Ō	Q	Q	6 .
KERALA NADRAS	8	17	48 19	5	X	Ž	ż	2	10	83
MADIYA PRADESP	80	ð	47 2	17	11	9Ä.	Š	Õ	A	86
MAHARASHTRA	11	ā	26	3	O	Ö	ž	4	ŏ	ĞŢ.
WYSCRE	5	12	24	9	3	9	8	8	10	78
ORIBBA	7	1	18	1	1	3	0	Ō	0	84-15
RAJASTHAN	9	1	4	4	1	7	4	Õ	1	33
TTAR PRADESH VEST BENGAL	9	- 2		37	2	2	Ţ	2	3	57
a de la companya de	Q			7	D Desirate de la compositación d		<i>3</i> V			and the second s
TOTAL	105	66	200	96	29	69	76	23	67	789 7

The main body of this section is an anlysis of the various aspects of craft tenching in the secondary schools on an all-India basis. In addition to this general report a detailed description has been prepared for each of the states. These state reports are given in appendix VII.

The all-India report and the reports of the states are presented under several headings. The general information about crafts is presented first and deals with the status of craft, objectives of craft teaching, erafts taught in the secondary schools and the oraft curriculum. This is followed by a description of the physical facilities for craft including accommodation, adquipment and disposal of craft products, (2) information about craft teachers and their training, (3) evaluation practices, (4) and a report of special craft features, steps being taken to promote craft instruction and suggestions for improving craft teaching.

The infernation on which the all-India report and the reports of the various states (1% based, is subject to several limitations. In the first place, the representativeness of the sample of the schools which have sent replies to the questionaire is not known. Secondly, the nature of certain of the questions precluded a precise analysis. Exact figures in some cases proved to be more misleading than reporting the general trend indicated by the data. Some of the 'yes', 'no' or multiple-choice items seemed to provide a built-in and almost irrestible temptation to check one of the answers. An open-ended question for example, brought out what appeared to be have a structured question with 10 objectives to be checked. In the latter case the respondents were tempted to check some of the good sounding objectives.

Some questions in the questionnaire seemed to convey different meanings to different removients. For example, question 10 on the size of the evaluation has been interpreted by some respondents as enrolment size in a classroom and by others as the size of the room. Some schools interpreted "internal assessment" (item 43) as the assessment made with the help of records, and external assessment as that done by examination. Some schools considered internal assessment of that made by the school staff and external assessment as that made by outside agency. Questions 8, 11, 13, 14 also involved some ambiguities.

Some of the multiple-choice items were not exclusive of each other. For example in question 47 the first alternative Smaintaining a record of pupil progress" may include three mentioned after it. In fact "maintaining a record of pupil progress" could be alternated with "by examination." In such cases the interpretation of the response becames difficult and exact figures implying precision are misleading.

Some questions requested information which the schools may not have been in a position to provide. Question 32, which asked for information about the qualifications of the existing teachers in the schools, is an example.

The terms used in some of the questions, terms like teachers' file of material, pupils' collection of craft designs and materials, internal and external massessant should probably have been precisely defined.

Even with these limitations, the questionnaire responses give a rather good idea about crafts in secondary schools of India. The limitations have been taken into account in the style of propering the report which is not intended to provide exact, quantitative information. It does give, however, general information which may be helpful in understanding many aspects of craft teaching in secondary schools.

CRAFT TRACHING TWRC-SCRETTE INDIA

Grafts

Craft now occupies a definite place in all but a few of the secondary schools of India. In many, crafts have been introduced only recently. Most of the schools answering the manufacture indicated that craft is a compularly of letter the schools it is both compulsory and optic the letter of schools in respect to these three percentage figures of schools in respect to these three positions.

TABLE 12

STATUS OF THOSE TRANSPORT TO THE STATE OF THE TRANSPORT OF THE STATE O

ndadarahada alaman kanan k Kanan kanan ka	Parami	dys dens Lynic of	. r, r	Percentage of schools answering that crafts in schools ar are linked with those present bed in the area.
Andera Bihar Gujrat Kerala Madras Madhya Pradesh Maharachtra Histor Crissa Rajasthan Uttar Pradesh West Bengal	\$5 90 92 92 72 96 95 91 83 83 52 91	9 5 2 5 15 2 2 12 6 24 2	7 26 3 13 4 39 4 6 24 2	72 73 68 70 77 74 67 81 83 83-73

It was not made clear how craft could be both compulsory and optional as was claimed by some schools.

As Table indicates, in all the States except Uttar Pradesh at least 72% of secondary schools have craft as a compulsory subject. In 52% of the schools reporting from Uttar Pradesh craft is compulsory. Twenty four percent of the schools in that State have craft as an optional subject. In Madras 15% and in Crissa 12% of the schools have craft as an optional subject. Com the whole craft seems to be well accepted as a compulsory subject.

As far as the teaching of crafts in different grades is concerned there seem to be three main patterns. In most of the schools crafts are introduced in the 6th standard and continue upto the 10th or 11th standard. In some schools craft is introduced carlier and does not go beyond the 8th standard. In other schools craft is inroduced much earlier and continues throughout the secondary stage. It is quite difficult to give overall figures about the warious classes. The reports for the individual States (see Appendix VII) contain information on this aspect.

Most of the schools report that the wafts taught in them are linked with those practised in the surrounding areas. The percenters figures in Table indicate that atleast 67% or the schools in all States have this feeling. This at least suggests that crafts may be selected on the basis of local conditions.

Chicotives

The ten objectives appearing in the questionnaire have been checked by the schools from all the States and Table summarises the results.

PRODUCTAGE OF SCHOOLS CHECKING THE VARIOUS OBJECTIVES IN INTRODUCING

	CRAPT BULK	JATICE	I I I	NATIONAL SERVICE SERVICE AND ADDRESS OF THE PARTY OF THE		T, TM				
	Q	b	Ć,	Q.	Ø	6	8	12	2	3
andira	69	72	61	70	70	50	49	34	63	65
DIHAR	48	84	60	9/3	60	62	52	3080	53	58
OUTRAT	44	48	60	76	50	58	50	22	46	56
KENALA	65	76	71	70	68	66	52	30	61	60
M ADRAS	93	60	67	72	47	54	48	24	58	50
HEADERS AVERUAN	57 ·	53	57	75	63	45	44	26	48	48
Maharashtra	65	67	67	68	54	50	36	23	36	62
MYSORE	58	73	69	73	59	45	39	26	50	32
ONISSA	79	67	60	67	58	42	80	25	37	68
RATAGETAT	58 60	73	60	82 73	55 60	61 65	58 52	45	33	63
Utran palaring		72	60							63
VEST BENGAL	56	70	68	80	70	56	47	28	42	70

Entremed in Question No. 6. A pre-dix 11).

accepted objective is that of inculcating dignity of labour. The percentage of schools endorsing this objective ranges from 67 to 92. The objective second in acceptability appears to be that of providing a vocation of the objective is quite high and ranges from 48 to 75. The percentage figures indicate that the least accepted ebjective appears to be that of offering opportunities for guided exploration and experimentation in practical situations. The oppositions of acceptable these objectives range from 22 to 45. The objective of giving pupils confidence to use inexpensive and locally available materials is also not higherly accepted. The percentage figures range from 36 to 55.58.

Grafts toucht

The different schools from all the States responding to the questionnaire have listed as many as 41 crafts in all. Frequency of mention is reported in TablelWhich include crafts as they were mentioned by the different schools. Consideration was not given to the question as to whether or not a subject mentioned by a particular school could legitimately be called a crafts. For example dramatics, drawing, music, stenc-typing, typing etc., have been called crafts by some schools and have been included in the list. The exact words used to denote the crafts by the schools have been included in the Table so far as was possible. The figures given are the percentages of the total number of schools in a State, irrespective of its type.

It will be clear from Table 14 that spinning is can of the most popular crafts in all the States except U."., West Bengal, Mysore and Crissa. Cally 9% schools in West Bengal and 10% in Mysore seem to practise spinning. Agriculture is a popular craft in Mysore and Anthra. West Bengal schools have clay work and embroidery as important crafts after weed work which seems to the most popular in that State. Wood work also cacupies an important place in the schools of Madras, Crissa, Maharashtra and Madhya Praiesh. Among crafts for girls, embroidery seems to be quite popular except in Uttar Praiesh. Gardening is also among the more popular crafts. Lit is reported as practical in 60% of schools in the crafts. Lit is reported as practical in 60% of schools in the College of Uttar Praiesh. In Andura 13% schools and in Bihar 22% which is schools practise gardening. The figures appearing in the consolidated reports in boys and girls schools or in high schools, higher secondary schools and multi-purpose schools, higher secondary schools and multi-purpose schools, are not inficated. The various tables appearing with the reports of the States describe the position of crafts practised in the various types of schools. The differences among the types of schools are also discussed in the State reports.

Most secondary schools provide only one craft for a student at one time. The percentage of schools offering only one craft to a student exceed 65 in all states.

SCENTIALS OF SCHOOL PROPERTY OF SCHOOL PROPERTY.

			- A I I I I I I I I I I I I I I I I I I	14. General Mgi-			To the children	5. Briany		S. Princisco	7 Pollmaking	o. Aly were	a certain and	A. Come work	a	2. Beeling	To Book Office The Control of the Co		
CO	6	6	Ø	jouil	ස	9		8	Piggs fores	4	ģenis.	00	Cn	ø		B	(Q	9	
0)	(3)	ŝ			Ŋ	ŧ	69	0	d)	•	9	w	60	8	ě	00	6		
0	9	9	9	ŋ	W	9	9	ď	•	0	1	•	ij	9	*	8	5	\$ \$	
eo		9	1-4	8	gund (3)	freed	40	Š.	6	3	•	ğ	EQ.	(A)	W.	9		1	
RO.	W	8	60	9	60	8	j esh	F-3	en Ch	\$	0	9	co	1-4	- O\$. 6	ČR.	0	gi.
ju Ga	*	9	•	Ç.	P	6	ð	ঠা	O	. 19	9	ю	***	8	•	0	-	0 0	
9	•	0	D)	9	C	1	•	Ö	Ç0	4	8	w	N	. 6		• 0	Ŋ	8	
0	h	0	(A)	•	S.) jed		P3	de		. 8	A	j -d	4	U	C	j jed	9	
9	4	\$	ß		i i) 1 (1)	•	is En	8		*	\$	ā	8	Đ	0	9	8	FR
ω	9	*	ģ	•	• •	9	9	6	¢.) (***	K	5) (45	7 1	Ø	9	FF
CA	. Cr	, •	~	•	N		,	M	. 4	ij			•	9	•	3 "	to	į į	
	· C		~) 1	***	ð k	9	Paris Paris	8	*	u) P	} ,	d	> (• 0	•	(()	

EDIE W (Gentlemed)

			33					My30re	3	70 OT.	å
		9	Þ	9	Ø	0		ß			4
. Paper		ŧ	ij	k	ļ	,			transfer reports		
•		9	8		. 0	6			b	B	
Paper		<i>6</i> 3	8	(4)		6		9		(mate	
鲫		8	8	9	9	0		9		(c)	6 3
49		9	9	8	w	9			9	0	9
NO. WINTER		w	ŋ	9	9	e a	No.		0) Ca	9 Ca
49		0	•	á	6	ő			0		
400		r0	あ	gong Sirin	tøi	in g	E SPORTO		S	1	1
®	1	.F>	3	ŧ	1	ı	•		j	j.	j.
49	9	DQ	9	9	9	C					
P. Prining		8	S	u	ß	8			60	88 65	88 65
49		; 	! :			,					
49		<u>М</u>	8	S		8			Ö	2	2
(3)	0	6	ð	9	t -w [∆]	•		0			
	g-ol.	À	0	à	ā	1		W	W	0	0
						ħ.	ar			b.	a .
	5	ŧ	0	•	¢	De M	100	•	•		
榆	ំ រ	. Į	1	,					1	1	1
39. Weating	ត	\$	G	ô	8			8			8
•	~3	0) ()()	Ö	Z						

Table 15 gives the percentage of schools offering one, two three or four erafts at a time to a student.

CHOIDE CF CRAFTS BY STUDTING IN SECONDARY SONCOLS

		indicating offered by	Frances	desta .	Provi- Cw Sicn in apt Scherl th		Senocis Editary Aitary Dature	Parents choice	choice	Cthery
	-	3				J			9	
	8	ti	(2)	D)	2	¥		Ġ,	8	*
H	8	6	00	. 0	3	8	8	K	R	
		ದ	8	9	33	~	5	0	50	0
	3	8	64	•	8	2	Ø		8	Ç0
M 17010	ð	K	w	00	3	9	ă	E	5	~3
	8	99		<u>p</u> ed	7	ß	jed jed	jesti Jenš	(3)	•
	8		0	0	8	3	~3	6	8	C A
	N	5	W	0	8	80	00m (mg	p	food (Po	,
	3	69	0	8	9	Ø	5	р-1 (V)	K	
	9	F)	₩	9	88	X	2	G	3)-a 60)
	R		8	00	3	6	~3	8	ļod M	1
MAR BENGE	8	5	23	9	8	8		23		N)

Twenty percent of the schools in Kerala and Orissa provide for two crafts at a time. Only a small percentage of schools in other States provide for two erafts. The percentage of schools providing for three crafts is very small and only a few

The various reasons given in the amountainnates for the selection of crafts by students have accepted ed by the different schools. The percentage figures appear in Table 10 . It is clear from this Table that in anst of the schools students select a craft because it is provided. The percentages of schools entersing this reasons for craft selection by pupils range from 69 to 90. The reasons next in importance seems to be the selection of the basis of the students aptitude. The figured in this connection for Uttar Project is as high as 4? and for Madras it is 41. It is not clear, however, from the replies to these questions how aptitude is determined as a basis for selection. Probably most of the schools mean that the students choose a eraft on the basis of their own interests. Other reasons for choosing a particular craft have been enicrsed by smaller numbers of schools. One reasons which exarges from the table is the preference of the teacher. It is difficult to say hew this factor differs from the first factor, i.e the prevision of the erafts in the scheels. In scae scheels the actual provision of crafts may be based on the choice or at least the competence of the teacher.

on the whole it appears that more than half of the schools in any state it not have any provision for change of craft during the sprendary school course. This is made clear by Table 15. The possibility of a pupil changeing craft is discussed in the state reports that follow, dollow and In some States such changes are quite course, as in Uttar Praiesh, Bihar and Mairas. Other states, for example West Bengal, do not seem to provide for the possibility of change in craft during the secondary education course.

Guzzlaulum

Frur anestiers in the questionnaire had to do with a male dem content. The majority of the schools in different States express satisfaction with curriculum centent bearing on the application of craft in daily life. The percentage figures appearing in table (6 show that at least 75% schools in any state are of the opinion that this content is apprepriate. The next important aspoot of the content is the inclusion of material relating to manipulative skill. The percentage of schools endorsing this ranges from 54 to 87. These is greater variation with regard to curriculum content which emphasizes the scientific basis of crafts. Some States like Gujrat have high percentage of schools which seem to be satisfied with this. Some other states like Crissa, with 37% affirmative responses to this part of the questionnaire, feel less satisfied about the curriculum content dealing with the scientific basis of craft. The figures on the whole seem to show that the secondary schools are not much disactianted with the curriculum content.

As regards integration of the curriculum with the different aspects of the students' experiences not less than about half of the schools in any Stame, Gujrat being an exception, are satisfied with integration

with home and community experiences. Schools seem to be much less satisfied with the integration of the craft curriculum with the other subject of the curriculum. In some States like (rises as few as 21% of the schools are satisfied with this aspect of integration. A similar situation obtains in West Bengal, Bihar and Gujrat. As will be seen from the table in no State except Andhra does the satisfaction percent/exceed 46. The remembers of schools in the several states expressing entlefaction with the integration of the craft curriculum with co-curricular activities range from 47 to 50. In most of the States approximately half of the schools seem to be satisfied with this aspect of the integration.

Schools 3 morally seem to be satisfied with the curriculum in respect to the creative aspect of craft. Among the several states the satisfaction percentages range from 91 to 62% in this connection. With the exception of Crissa the satisfaction percentages are very high and To not fall below 76. Schools are equally well satisfied with those aspects of the curriculum designed to stimulate interest in students so that they may be able to pursue crafts even after secondary education.

American American American State (5)

'ercentages of schools answering in affirmative the various questions reserving oraft our rigulum

SERVICE STATES AND STATES	entropy of the entropy	Table Devices a sprain	Magnest ungg - dans dans	and the state of t	with the come	ecase hagging her	nastalisten n	was diving the second of the second	animiente es a antenaires es es es es es es
	4,000,00		44- 71 -176	TO BE SEED OF THE	3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0:10	a 20	TARRES.	The Contin
	1 mg/1 ma	1000	9 (2) (37)		Later ?	2021	ž.	ભુગી હતું	fablant of a
	33 g	4 1 P 1 M	444430	1 C 2 C 1 C 2 2	146 8.	e 780 100° A 700°	Tarbers - Concernia	gor not by	'interestly
3944.3	tivo	722.03	್ಶಿಂಬಿತ	in lot	110-7 75	6	. C)e2	exactv.	edicoluda !
	skill	or	or	'ly 111'	i sigom	QZ	"Clim	aspoots	-
		10st	'oraft'	9			'rri-	9	*
		'fts.	9	ā	'nity'	joot	lau-	•	1
		•	4		OX-		lar	9	1
		*	19	•	'peril		'aot1	AND E	9
		•	*	9	'ence'.	,	viti	ų .	0
		9	4		\$ 0		'05.	" 4	9
Dátem		*	*	•	0 E		t	•	1
Andhea Bihar Gurat Kerala Madras Andra Pradesh Maharashtra Myscre Crissa Rajasihay Ttar Pradesh West Bengal	83 62 68 77 72 76 85 57 54 87	68 54 56 59 56 61 59 41 67 68 58	63 54 85 55 61 60 68 64 37 70 70	95 76 90 76 83 84 90 89 86 75 90	81 74 46 65 74 62 76 66 70 71	61 34 36 43 40 33 43 44 81 46 39	80 62 60 47 55 68 55 55 45 56 70	91 78 76 86 84 82 80 62 90 83 86	75 54 52 65 70 60 66 66 62 75 71

Physical facilities

The questionnaire items dealing with physical facilities refer to accumedation, equipment and disposal of crafts products. Each of these is commented on separately below.

Accomodation

As was noted above, the question about the size of eraft room has been differently interpreted by the respondents. Some interpreted the term to refer to the size of enrolment in the craft class while others understood the term to mean size of the craft room. For this reason it is quite difficult to make an inference about the average size of the craft room in the various schools. What inferentian is available on this point is discussed in the reports of the States. On the whole it appears that schools have accemplation of about 500 sq.ft. for their craft class.

States differ with regard to providing of separate rooms for craft classes. Table Tives the figures for the different States.

PERCENT OF STREET OFFICE OFFICE ARCHE

53 78 A 58 57 For A 4. 2. 2.3	Separate roca for eraft classes.	The rorm provides adequate space.	The room 18 wall Lighted.	Adequate storing facility ties.	Raw- material avallable in time.
AHDIRA BIHAR GUJRAT KERALA MADRAS MADRIA PRADESH HAMARASHTRA MYSCRE CRISSA RAJAGTHAN UTTAR PRADESH	76 20 90 52 77 26 67 38 33 24 70	47 42 80 34 69 95 64 54 50 48	74 52 96 61 75 63 65 & 6	57 36 78 37 60 35 68 43 26 39	85 68 92 77 92 72 96 64 83 18
uttar pradesh West bengal	70 66	<u>6</u> 5	77 83	56 56	91. 77

Predesh States like Orissa. Gujrat, Madras, Ambra and Utter Predesh Signification that popular that only half of the schools have separate east also were. In Bihar, Rajasthan and Madhya Predoch only object one fourth of the ablocks have a separate roce for conducting craft classes.

The situation with regard to adequate storing facilities for craft products prepared by students as well as

other supplies and materials appears to be much better. The States of Gujret, Madras and Crissa do best in this known respect. In the States of Utter Pradesh, West Bengal and Anihra about half of the schools have this facility available in some States like Madhya Pradesh and Rajasthan, the situation is less satisfactory.

It is not clear whether the questionnaire items referring to the adequacy of space and illumination in the room or its suitabilities from other points of view were correctly unlerstood. The responses imply that some schools interpreted these questions as referring to the room set aside for craft classes, while other schools understood it to mean the rooms used for craft classes whether separate or not. The percentage figures indicating adequate space in the craft teaching room ranged from 34 to 30. Some of the schools seem to be well satisfied with this aspect while others are dissatisfied. The percentage figures indicating room adequacy in respect to illumination and other factors are higher.

Fantracet.

Most of the schools in all states reported that reaterial to the students, in time, was not a problem. Figures for Gujrat, Uttar Pradesh, Madras, Crissa, Maharasht: and Andhra in this connection are very high. Only in Rajasthan do schools seem to be dissatisfied. In that state 18% of the schools report that raw materials are made available to the students in time.

The creationnaire devotes one question to the craft of the craft of the creation with the whorls. From the replies expressed as percentage figures in Table \%, it appears that the schools on the whole are satisfied with the availability of raw materials and tools. The respect of figures indicating satisfaction with raw— in the range from 82 to 51. Similarly, at least half of the schools in each state reported satisfaction with regard to the availability of craft tools. In Bihar, however, only 44% of schools reported satisfaction with craft tools. The figures indicating satisfaction with other items of craft equipment like tables, work benches, easels, show cases and display boards are comparatively lower. Fewer than half of the schools seem to be satis—fied with these items of craft equipment.

In respect to satisfaction with the efficiency with which the available material is used, the figures are generally vary high. With the exception of Rajasthan, where the satisfaction percentage is only 15, at least three fourth of the schools Areport satisfaction with the efficiency with which craft materials are used.

Table also gives figures indicating the percent of schools expressing satisfaction with the availability of instructional material. Of the materials listed in the questionnaire, namely, text books, reference materials,

TEXTIFIED OF COME TOTAL PRINCIPLE OF CASE CONTROL

					电子运输性 化二甲基苯甲基苯甲基苯甲基						*				
2				3	2	7		Parcer-					Pei	129	: # A
	Y A A A A A A A A A A A A A A A A A A A	ı			3	101		indicating that used to be a second				1172	3779		**
êMTS	8	8	3	Š		(4.2	3	TR .	\$	3	Ø	å	2	8	10
		g-cul	23	*	8	M	S	8	3	33	8	8	ò	8	8
	93	3	ŝ	Ö	S	Ì	.3		9	3		3	ß	â	20
Nora 1	3	3	5	C)	W	13	8	3			Ø	3	æ	2	6
	3		e	ŝ	ŝ	رت اسر	3	\$	8	8	ā		3	S.	1
desh from	8		3	8	tal	*3	2	3			5	Ŝ	4		*
	2	8	5	3		Š		0	Gradi Joseph	ä			\$	8	ø
N 1076	ð		ठें	S	2	3	3	8	\$	걸	ß	8	2	3	(1)
	8	3	8	3	bud "J	N	3	3		B	***		8	8	•
	.0	3	ð	3	2	3	ð		3	8	3	8	3	8	
Uter Francisco	S	9	3	. 2	3	¥	3	15 3	7	**	b	8	8	8	5
Mest Rensel	3	3	ð	8	성	ŝ	9	3	ä	Ą	3	ਖ਼	6	ä	•

periodicals, teachers' file of material, pupils collection and craft models and charts, the schools soon in general to be satisfied with the availability of the litem for aft models and charts. Only one fourth of the Bihar and Kerala schools indicate satisfaction with the availability of craft models and charts. The largest percentage of satisfaction in this connection is 73% represents West Bengal. Least satisfaction was expressed with the availability of periodicals although 72% of the West Bengal schools reported satisfaction in this respect. Migures representing the percentage of schools satisfied and other items can be seen from the tablets.

Toachers

Information about the number of teachers per craft in secondary schools do not appear to be accurate as they reported in the questionnaire, However, from the house appear to available data the percentage of schools having less than one teacher por craft (that is, one teacher teaches two, three of acre crafts of there is no teacher for crafts at all), cm teacher per craft or more than one teacher appear in Table 19. As will be seen from the table quite a large mmber of schools have at least one teacher per craft. The LYNY situation in Rajasthan and Maharashtra seems to be unsatisfactory, however, in that Galy 335 schools in the fermer Rajastha wand 38% selected individual nation most this criterian. Crissa provides one teacher per craft in all the schools. Inaddition to Rajasthan, Maharashtra, Myscre, Andhra, Madhya Pradosh, Korala and Mairas have large numbers of schools with less than one teacher per craft. 46% of the schools in Guarat report that they provide more than one teacher. States of Vtter Praissh. Bihar and Maharashtra are also well eff in this respect.

The responses to the questions about the adequacy of staff for craft work vary from State to State. The range of percentages answering in the affirmative is from 31 to 92. Schools in Gujrat, Maharashtra and Uttar Praiesh seem to be very much satisfied about the adequacy of staff. In West Bengal, Rajasthan, Crissa, Mysore, Bihar and Andhra, at least half of the schools feel that they have adequate staff for craft work. Fewer schools in Madhya Pradesh and Kerala feel that they have adequate staff.

It appears that at least about half of the schools in any State are of the opinion that their teachers have received institutional training. A very large number of schools in Andhra, Gujrat, Kerela, Madras, Maharashtra, Crissa and West Bengal report this to be the case.

The questions asking the schools whether or not they experience difficulty in securing teachers who know their subjects well and who are polagogically trained, indicate that at least 50.40experience these difficulties. Uttar Project Askar and Malras are exceptions. It may be difficult to rotate

PERGUNTAGE OF SCHOOLS ANSWERING THE VARIOUS QUESTION ON STAFF POSITION の一個なる。

	ecatività evalo					MARK ARSK	2020					
5	8	8		S	8	3	S	Z		W	ÇQ	
8	8	K	K	8	63	83	ganile Ganile	S	S	â	S	Sa T
	8	Ø		Ça		grad grad	a	623	å	8	5	Then then
8	3	8	8	8	S	8	3	e	8	S	8	
*3	*	G	28	V	3	٥	8	X	8	8	3	HOSHUR HOHOUS HO
P	Ç	3	Ċ,	8	8		ä	6	8	8	2	
	6	9	8	8	8	9	S	8	8	8		
	2	8	8	jud V	5	3	Ø			8	grade grade	Untrain and unquelt.
2	8	G		2	β	8	8	\$		Ŝ	P	ntegen figure que
			8	8		P3		S.			***	participate in contivities.

replies to these question to the replies received to the question asking whether the teachers in the schools have received institutional training.

fied artisans for teaching crafts. The exception seems to be West Bangal where 81% schools report that they resemblar used we to this expedient. The lowest figure is for the State of Franklar Madras. In various States 20% to 30% of the schools seem to way be using unqualified artisans.

Generally it appears that schools are satisfied that their craft teachers use modern techniques. In three fourths of the States more than half of the schools report this to be the case. Fewer schools feel that craft teachers participate adequately in community craft activities. Cally in Uttar Praiesh do as many as 87% of the schools report that their craft teachers participate in the community craft activities. For other schools the percentages are quite low.

The qualifications prescribed for the craft teachers in the several States were not mentioned by the schools. They did, however, give the qualification of their own teachers. It is difficult to infer trands in this respect but the situation is discussed in the reports of the States. Generally it appears that the schools employ teachers who are Matric passed and who have had some training in crafts.

The information about the salaries given to the craft teachers, similarly, is not indicated clearly. The writus pattern of salary graies are discussed in the reports for the individual States which include the list of institutions that provide training facilities for craft teachers in each area.

Evaluation

Replies to the marking in the section on waluation are difficult to in Empirit. About 50% of the schools mention that the maintain a page of a papil progress in crafts. In some States, for example Gujrat and Madhya Praicsh the figure is as high as 86%.

The other three aspects of evaluation namely, creative ability, technical competence and quantitative turnover, seem to be included in many cases in the receris of progress maintained. The figures for the different States appear in Table 20-A but they should be interpretted with caution. From the table 20-A it is clear that about 38% schools seem to be evaluating technical competence while creative ability and quantitative turnover are evaluated by about 44% occord.

The question asking about the internal and external assessment of craft work speas to have been interpretted in different ways by different respondents. Some schools seemed to define internal assessment as the maintenance of records of pupil progress and external assessment as final examination. Other schools seem to the pupil progress and external assessment the

196-20-R

PROGRAM CESTICES TALINETY DEPENDED ASSESSED OF SAFE HEAL

4. By evaluating quantitative turn-ever.	3. By evaluating temperature.	2. By evaluating areative acti-	L. By maintaining a reachd of pu-	
8	å		8	
S	8	35	8	
8	Ô	*	8	
es .	S		6	
8		Si	8	
ä	8	8	8	
Š	8	8	73	
	8	8	83	
8	8	8	8 9	
	Ö	8		
8		\$	8	

PERSONAL CE SORICES EVILLO INTERNATION ON TRANSPORT CONTRACTOR ESTABLISMA CE CHARACTURE

S.		assessant.	
 Os	O	3	
ĸ	#	8	• · · · · · · · · · · · · · · · · · · ·
	9	8	Ē
w	CA	8	FA
60	Ça3	3	
Q 3	©	8	
C	&		
	80	8	
5			
	(8	
	•		
	8	8	

ELMINATICE POSITICE IN CRAFTS IT SERVIDARY SCHOOLS)

TABLE 20.0

BEST BEST SE	TEAR PROSE 92	SHIEST PA					ESGUSA VALUE E					STATE PART OF A
	N	_	a	ß	3	8	8	8	8	3	6	
8	(n	9	83	-d	3	8	50	8	0		3	
ß	•	6)	5	Ø	5	Ø	5	0	8	d)	O	Cuca: Into
8	8	jud id	9	Ø				**3		8	5	
Ç,	ß	S	Ů	ä	8	64	ħ	CO	6	0	2	held in
0	0	0	8	9	Ö	0	0	6	S	8	6	H CH
	(3)	()	•	~	CO	Co	O	(0)		S		744 G
C	٨	•	e-3	K	8	GR	6	Çi)	K	8	~	Genpesitien of examination of the 'Prac-'The ory 'tieal 'ory nly. '% Prac'; 'ctie
6	8	8	88	Š		6	8	(m)	3	Ø		cn of the
	8	8	5	0		~1	8	M		5		ACC 60 10 10 10 10 10 10 10 10 10 10 10 10 10
8	2	(3)	8	Ò	8	6	\$	Ð	5	8	8	
W	Ca	8		8		3	•		•	8		
7	2	8	台	8	ß	(4)		5		3	K	
		83	13	5		3			\$	8	3	*5.95

assessment carried cut by the school staff and external assessment as the assessment done by an external body. The responses therefore have to be interpretted with caution. Table gives figures for these. As will be seen from the table a very large number of schools have internal assessment and only a very small percentage of schools collected external assessment. In States of Bihar, Gujrat and Rajasthan a few schools have both external and internal assessment.

The details about the position of examination in crafts can be seen in Tablelwhich reveals that a regular annual examination in craft is held in almost all the schools of Gujrat, Rajasthan and West Bengal. In Madhya Pralesh, Maharashtra and Uttar Pradesh more than 30% of schools hold regular examination in craft work. In Bihar, Kerala and Crissa, more than fifty percent of schools hold regular examination in craft work. About sixty percent of schools in Andhra and Mairas do not held any regular examination.

As regards the composition of each examination, in majority of the schools of all States, both theory and practical examinations are held in crafts. In few schools either a practical examination or a theory examination is held. Vivavoce examinations in which each pupil is interviewed for a few minutes and questions asked pertaining to craft work are common in a few schools. Where it is used, the viva-voce examination constitutes only a part of the practical examination.

In all the schools of the States of Gujrat and in more than 50% of schools of the States of Madhya Pradesh. Maharashtra, Crissa, Uttar Pradesh and West Bengal Tarminimum pass marks in craft work have been prescribed. In more than 60% of the schools of Andhra, Bihar, Kerala, Madras and Rajasthan, minima for a pass in crafts have been prescribed. These minima range from 30% to 50% approximatel 33% in most of the schools. In some schools the minima for theory and practical examinations differ with the latter being higher.

In more than 60% of the schools of Bihar, Gujrat, Madhya Pradesh, Maharashtra, Rajasthan, Uttar Pradesh and West Bengal, the pupils' achievament in crafts is taken into consideration in proacting him to the next class. The pupils' marks in crafts are not taken into consideration for preaction in more than sixty percent of the schools of the States of Andhra, Kerala, Madras and Crissa.

Sugrestiens.

The various steps taken by the different schools for proacting craft work are reported in the section dealing with the separate states. Some special features in craft teaching mentioned by the various schools are also reported there. The schools were also asked to give suggestions for the improvement of craft teaching. These suggestions have been consolidated and are given below. The numbers in the parentheses against each statement indicates the number of schools offering that suggestion. The suggestion in the

Disposal of Graft Products

It seems that the usual practice for the disposal of craft products prepared by school students is either to sell them or return them to the pupils. In most cases the products are sold to public. Some schools report that products are sold to pupils and toachers at the cost price. In many cases the products are auctioned. Only some schools in the States of Andhra, Gujerat. Madras, Maharashtra, Orissa, Rajasthan and West Bengal mention that the craft products prepared by the students are preserved in the schools. Schools in Rajasthan mention that these products are used for school surposes. 2 out of 10 schools in West Bengal, which have mentioned that the products are preserved report that these are used in the schools.

Products are returned to pupils mainly in the schools of Maharashtra, West Bengal, Uttar Pradesh, Madhya Pradesh and Bihar. Some schools mention that the products are returned because the raw-materials are brought by the pupils themselves. Very few schools in Orissa, Madras and Gujerat have this practice.

The most common practice seems to be that of auctioning the products, although few schools follow this practice in the States of Bihar, Gujerat, Madhya Pradesh, Maharashtra, Rajasthan and Mysore. In Rajasthan only one school and in Bihar, Gujerat and Madhya Pradesh only two schools have reported this practice. The States which seem to be following this very often are Kerala, Madras and Andhra, Schools in the States of Gujerat and Andhra generally sell the products to the pupils. Only one school in Uttar Pradesh has reported that the products are sold to the pupils and no schools in West Bengal, Orissa and Mysore have reported such a practice.

From the replies reported by the various schools from the different Statem it appears that the problem of disposal of craft products is not being dealt with as carefully as it should be. This is substantiated by the suggestions made by some schools for promoting craft work. As will be seen from suggestions some schools have mentioned the desirability of dealing with this problem more systematically.

been classified under varices heads:

Muanca:

- 1. More finances (94).
- 2. Better pay scales (11).
- 3. Separate grants for crafts (32).

Statt

- 4. Whote time teachers (3).
- 5. Adequate staff. (14).
- 6. Trained staff (170).
- 7. Smaller classes (33).
 Rationdants (9).

Space

- 9. More space (101).
- 10. Storing facilities (4).
- L1. Craft workshop (15).

Eaut on eat

- 18. Adequate equipment (143).
- 13. More furniture (4).
- 14. Ray material (86).

Mancas.

- 15. Central cooperative store for disposal (3).
- 16. Produce to go to pupile (2).

Syllabus

- 17. Better syllabus (13).
- 18. Subjects to be cerrelated with craft (2).
- 19. Text books (4).
- 20. Theory of craft (1).

Axaminations

- 21. Better assessment methods (3).
- 32. External examination (4).

23. Supervision by experts (1).

Graft Exhibitions

24. Chaft exhibitions (3).

Literature on eract

25. Literature on eraft (7).

Macellanacua

- A.26. Craft should be optional (11).
 - 27. Craft should be compulsory (19).
 - 28. There should be hobby classes (2).
- B. 29. Crafts to be upto the 8th class only (1).
 - 30. Grafts to be continued in the higher classes (1).
 - 31. Crafts to be continued in colleges (4).
- C. 32. Craft should be an examination subject (31).
 - 33. Craft should be in public exem. (1).
 - 34. Craft should be at par with other subjects (2).
- D. 35. There should be varied crafts (48).
 - 36. There should be rewards and prizes (1).
 - 37. Fees should be increased (1).
 - 38. Competitions should be held (1).
 - 39. Preference in Government service (6).
- E. 40. More time is required for eraft work (46).
 - 41. Duration of craft training may be increased from four to 6 years. (1).
 - 42. One day for craft study for one class in a week (1).
- F. 43. Crafts should conform to local conditions (1).
 - 44. Encourage local crafts (1).
 - 45. Crafts to be started only where facilities exist (1).
 - 46. There should not be any craft teacher at all (2).

CHAPTER Y

LIAINUN ACE TEATHUR CE CHAFTS

In the history of formal school education in India eracts as part of general education are of comparatively recent crizin. Some type of hand work in the form of sewing, needle work and tailoring was taught in the girls schools even in the 19th century. In boys schools there was no such thing as crafts but sees irawing iid occupy a place in the aurriculum. These above subjects were more or less of optional nature. hewever, and were not treated as organised oraft work. Consequently, training for the teaching of crafts as a subject in schools was unknown until the introduction of the scheme of Basic education. This scheme for the first time drew attention to the need for systematic training of craft teachers in schools. From the 1930 cowards, therefore. orafto bagan to be included as a compulsory subject in training institutions preparing teachers for junior and senior Basis scheels. After independence, with the accept one of Basic elucation as the national pattern of education for the elementary stage, the teacher training institutions at the an loss frage level all over the ocunery are being gradually converted to the Basic pattern. Hence training in the tochnical craft skills along with other methods of teaching forms part of the regular teacher training course at the unier-Oreivate level. At the post-graduate level as well. seme together training institutions in every State are being run on the Basia pattern so that craft training from a part of the regular programs at this stage also.

Apart from the regular organised training in the teaching of crafts imported in the above two types of training institutions there are other facilities in India for training in craft skills. These facilities are in the form of craft training institutions that are a run by the Central and State Reverments. These have as their main purpose teaching technical craft skills but not to train teachers of crafts for schools. Although scaetimes represent in these technical institutions are employed by schools and training institutions for the teaching of crafts yet the general experience is that for schools as well as training institutions mere technical training in crafts is not enough. At the present time there does not seem to be any accrdination between the needs of the Education Departments and the organisation of these purely technical institutions.

Since the implementation of any lecision regarding the introluction of craft work in schools has to be made in view of the availability of craft tenchers, an attempt has been made in this chapter to provey the existing facilities in the country for the beaching british; in crafts as well as training in the tenching of erefts.

There may be many limitations of the present survay as at is based upon very limited literature available to us and some information supplied by the State Departments of Education and the secondary schools in the States. However, it is hoped that this chapter will give a sufficiently good picture of the existing available facilities and suggestions for utilising such of the training facilities as are being ignored or not being utilised for lack of coordination between the education department and the departments organising such training.

(A) FACILITIES FOR TRAINING IN COTTAGE CRAFTS

In a large number of States some training facilities exist for various cotage crafts. Such facilities are mostly for those who want to enter into specific occupations after training. Almost all of these courses are organised by Industries Departments, Labour Departments or other departments which havanothing to do with the needs of the Education Departments. Again, the complete lack of coordination between the training facilities available in the various Departments has led to ignorance about the institutions giving such training. Moreover, in the technical schools controlled by the Industries Department only preliminary training is provided to matriculates or non-matriculates and facilities do not exist in these technical schools for intensive training in crafts for qualified teachers.

(B) OTHER PAGILITIES FOR TRAINING IN CRAFT AT

MANARASHTRA:

IN Maharashtra**, "teacher trainess teach crafts in training schools after abtaining the certificates of the junior or senior P.T.C. examinations." Formerly, some short-term courses of three or six months duration in craft work were conducted and the teachers trained therein taught craft in the schools. Since 1949, all the training colleges have been converted into Basic training colleges and hence no separate courses are run for teaching the crafts. As regards the training of personnel teaching in the training institutions, the following practice is followed:-

(1) Sminning and weavings

Teachers are deputed for training to institutions at Sevagram, Wardha conducted by Akhil Bhaus Serva Seva Sangha, Sevagram Wardha, and also to Khadi Vidyalaya, Tryambak Road, Wasik.

^{*} See appendix VIII. A State-wise list of training facilities for cottage crafts

^{**} Vide D.O. No. 653-D.2, dated 12.1.1963 from the Office of the Director of Education, Government of Maharashtra.

conducted by All-India Khadi Commission. Secondarly, the teachers who have undergone the three or six month about two courses are also eligible to teach craft in training colleges. In some cases the best of the immediate Graduates trained in the Basic training institutions are eligible for appointment as craft teachers in the Training Institutions.

- (i1) Agriculture: Persons who have eased the two years course of Agriculture Schools run for the Field Assistants are allowed to be recruited for teaching Agriculture Craft in Training Colleges.
- (iii) Wood-work: Competent primary teachers trained in wood-work in Technical Schools are deputed for additional training to Government Training Institute, Aunch Camp, Poona."

HARME

In Bombay there is a Hamdicrafts Teachers'
Training College run by the Arts & Crafts Education Society.
The College*6ffers the following three types of courses:

- (1) The Artisans Courses in Handicrafts;(2) The Craft Teachers Certificate Courses;
- (3) The Primary Teachers Course in Crafts.

In the Artisans courses in handicrafts, which are recognised by the All-India Handicrafts Board. Government of India, Ministry of Commerces & Industry, crafts such as - (1) cane & bamboo work; (ii) card-board work & book-binding: (iii) carpentry; (iv) clay work & pottery; (v) cloth printing & dyeing; (vi) leather work; (vii) metal work; (viii) tailoring & cutting; (ix) toy making (soft & wooden): and (x) weaving (hand-laom), are taught. In the Craft Teachers Certificate Courses, recognised by Maharashtra & Gujarat, nine courses of instruction are included. These relate to came work. card-board work and book-binding, carpentry (wood work), leather work, tailoring & cutting, bamboo work, cane & bamboo work, metal work, hand-spinning & wenving. The Primary Temchers Courses in crafts include paper folding, paper cutting, paper crumpling, simple paper flowers, garlands, crepe paper flowers, use of 'waste', simple weaving on card-board loom, clay work, card-board & strawboard work, and miscellaneous training in the preparation

^{*} The details of the various courses are available from the Director of Technical, Education, Maharashtra State, 3-Cruckshank Road, Bombay-1.

of marble papers, paste, glue, chalk sticks, etc.

ORIJSA

In Orissa the status of craft and craft teaching is described as follows: * "In the Basic schools craft teaching is a compulsory part of the school programme. In the senior Basic schools it is examinable by assessment. Regular training is being given to the teachers of Basic schools while they are under training in at least three crafts, viz., gardening, spinning and weaving. The teaching is done by training graduates or other Craft Instructors who have had special training in crafts either at wardha or at Koni. At present, gardening, spinning and weaving are the three main crafts in the Basic schools of Orissa. It is under contemplation to introduce carpentry, bee-keeping and horticulture as additional crafts. The matter is still under consideration.

"In the Basic schools one of the trained matriculates is put in charge of craft teaching as there is no special provision for appointing a craft teacher as such in the senior or junior Basic schools. But the teacher who handles craft-teaching is a trained hand proficient in the skill of imparting knowledge as well as necessary technique for the teaching of the crafts named In all the Basic Training Schools there is special provision for the teaching of the above three crafts and extensive areas have been acquried for gardening and agriculture. Necessary implements and other facilities are provided so as to enable the students undergoing training to get adequate facilities to acquire the knowledge and skill required for craft teaching. We have st present six Basic training institutions for matriculates who desire to be Basic teachers: and in all these six institutions the State Government have made adequate provision for craft teaching in spinning, weaving and gardening. The basic qualification for reconitment as oraft teacher in any school is Matrict Basic Trained. There are no special craft teaching institutions, as such, for the Basic schools. These Basic training schools are meeting the requirements of the State of Orissa so far as the junior and senior Basic schools are concerned.

"In the non-Basic schools at the primary level spinning and gardening are two important crafts which have

^{*} Vide note of D.P.I. Orissa, same with his D.O. Bo. 95, dated 11.1.1962.

been introduced since the year 1952. Under the scheme of 'Urientation of Primary Schools towards the Basic Pattern' which is being implemented this year it to ompected to provide various other crafts like- agriculture, claymodelling, mat-making, toy-making, paper-pulp work in the Upper Primary schools and in classes VI-VIII which correspond to the Middle School the following crafts are to be introduced viz.. tailoring, rope-making, cerpentry, weaving, saithy, sewing and needle-work, and working with machine tools..... As regards the teachers, necessary provision is being made in the normal Training Institutions (Elementary Training Schools) for the teaching of cruft to the prospective toachers and these crafts vary from gardening and agriculture to curpentry, weaving, spinning, tuiloring at present. To give a technological was to the training programme it is intended to provide oraft training in machine tools. Besides the 80 normal Irm ning Institutions for original school temphers we have a number of technical in thations in the State under the adminispration of the Industries Department which produce technicians in carpentry, shoe-making, weaving, tailoring and other useful crafts. The candidates who come out successful from these training institutions are appointed as craftteachers in their respective trades in Middle English and High Schools where craft has been introduced recently. Since teachers are not readily available for all the schools craft teaching has been made optional so far. But it is gredually being introduced in almost all the Middle English and High Schools. Matriculation is treated as the basic general qualification for admission into the teaching profession in the Basic schools and non-Basio Middle and High Schools. But as regards the non-Basic primary schools which are about 20,000 in number, we have to rely on the Middle-passed Elementary Trained teachers with just a little craft training plus required orientation courses which he will be compelled to attend periodically."

MA DRAS

In Madras* apart from the craft instructors' course in the Teachers' Coilege, Saidapet, there were 14 arts and crafts schools for women under the Industries Department and one L.P.N. Institute, Ratchanyapuram, Hadurai District, under the control of the Education Department. In 1957-58, the craft instructors courses related to wood-work and weaving. The L.P.N. Institute provides special training in crafts like weaving, home craft, pottery making, toy-making & busketry.

^{*} Report on Public Instruction in the Madras State for the year 1957-58.

CLNTHAL GOVERNET

The need for the training of craft instructors has also been realised by the Central Ministry of Labour. The Advisory Committee on Technical Training which was set up by the Labour Department of Government of India in their meeting in 1944 recommended the introduction of a scheme of training craftsmen for industry on a national basis. The Committee drew pointed attention to the shortage of instructors and recommended that their training must be an urgent and indispensible feature of the scheme for training craftsmen. The All-India Council for Technical Education endorsed this recommendation in April, 1946 and a Conference of Labour Ministers of Provincial (now State) Governments decided that a central institution for training instructors should be set up. In pasca of this decision, the Central Training In 84 84 84 84 9 9 9 Thetructors was established in April, 1948 at Koni (Bilaspur) in Madhya Pradesh. The main objects* of the Central Training Institute are:-

- "(1) to provide a course of theoretical and practical instruction in writing trades and in the art of teaching to Instructors employed in Government or private institutions and establishments;
- (ii) to train new Instructors who could meet the needs of existing institutions or of those to be started under the development plans of the country; and
- (iii) to provide a refresher course for Instructors so that they could always remain up-to-date in the knowledge of their trades and keep themselves familiar with the latest methods of production as well as teaching."

There are now about 5 to 6 such institutions in the country.

The Central Education Ministry wanted to utilise A samp of the existing facilities as possible for the purposes of training teachers for craft teaching in the schools. At the instance, therefore, the Central Institute at Koni (Bilaspur), agreed to start separate special courses for the training of teachers in the crafts required in schools and training institutions. The saveral State Departments were advised to send teachers for training in craft to this Central Institute but for some reason this arrangement did not prove to be successful.

In addition to the above facilities, the Basic Education Committee of the Khadi & Village Industries Commission which met at Sewagram in 1957 decided that craft refresher courses should be arranged by the Education Departments of the States, with the help of the Khadi & Village Industries Commission, for those trained in the Basic education institutions. Two years later the Committee "Central/Institute for Instructors, Komi - Bulletin for General Information; 1955.

resolved that the Stute Governments may be requested to give a definite and agreed upon plan for the vocational training of Basic school teachers. The Commission has brought out two very valuable pamphlets: (1) Assistance to Basic Institutions; & (2) Training in Khadi & Village the record beablier Glade gall Information industricu. regarding the types of training courses devised by the Commission. It would also be possible to work out some sort of arrangement with other Central agencies and authorities like Small-Scale Industries, All-India Handicrafts Board, Extension Training Department of the Ministry of Food & Agriculture, etc., for the training of craft teachers required for the schools and training institutions. Some sort of coordinated effort and initiative wre necessary.

- A state of the second s
 - (1) Training facilities for the teaching of crafts in the in the inicial facilities for the teaching of crafts on the inicial facilities for the teaching of crafts in the inicial facilities for the teaching of crafts in the inicial facilities for the teaching of crafts in the t

Crafts form an important part of the curriculum of teacher education for the elementary school level. The aims of teaching crafts in these institutions reveal the purpose and scope of this subject. In the syllabus prescribed for Maharashtra and Gujarat for their junior and senior certificate in teaching, the aims are stated as follows:

- "(1) To enable the students to understand intelligently all the processes involved in the craft from raw-materials to finished products;
- (ii) to enable the students to handle the equipment, maintain it carefully, do minor repairs or replacements when necessary and set up apparatus;
- (iii) to acquire skill in artistic production of articles prescribed in the syllabus; and
- (iv) to enable the students to correlate the knowledge gained in the craft, theory and practice with the academic subjects taught in achools."

The same syllabus sets out the objectives of teaching auxiliary or subsidiary crafts in the following statements:-

"In Basic schools, where education is to be imparted through life, the needs of life will touch upon more than one craft and, as such, auxiliary crafts are

included in the curriculum of Basic training institutions. The auxiliary crafts selected will serve as complements to the basic craft. The objectives of including auxiliary crafts will be to give the trainees the fundamentals of a related craft at a lower level, enable the trainees to see their relation to the basic crafts or the life of the people, and give them mastery over some of the fundamental processes in the practice of the auxiliary crafts. Much crafts will provide the trainees richer opportunities of correlating academic knowledge with them."

In the syllabus for Delhi the aims of teaching paper and card-board work have been stated as follows:-

"(i) To create a taste for making simple and beautiful things; (ii) to develop in the trainees a love for decorative designs; (iii) to enable them to realise the value of handwork; and (iv) to enable the trainees to correlate the knowledge gained in crafts with other subjects of the school."

The crafts offered in the various syllabii for tempher training at the under-graduate level have been listed in table 2 below:

Table 21

2	MAIN CRAILS 	Subsidiary Crafts
ANLHRA	Spinning weaving, garden- ing, Agriculture, Woodwork, Leather work, Pottery/Clay modelling, Tailoring, Card- board work, Metal work.	Paper making, Bee keeping, Poultry farming, Het weaving, Needle work, Fibre and Grees work, Basketry, Soup-making.
assam	Spinning & Weaving, Garden- ing.	Bee keeping, Sewing and Reedly work, Cane and Bamboo work.
BIHAR	Spinning & Weaving, Gafden- ing & Agriculture, Wood- work, leather work, Tailor- ing, Gard-board work, Metal work, Needle work.	Sericulture, Poultry farming and Fisciculture, Hat Weaving, Basketry.
Mahahashtra & Gujarat	Spinning & Weaving, Agri- culture, Wood work & Card-	Gardening, Cardboard work, Matwork, Needle work, Home craft.

board work.

Table 2 (Cont.)

State	HEIR CRAITS	SUD B1C1 B FY CF8 F1 B
DELHI	Spinning & Weaving, Agri- culture & Horticulture, Wood- work, Card-board work and paper work, Metal work, Home craft.	
Himachal Pra Desh	Spinning & Weaving, Gardening,	Wood work, Card-board work, Bee-keeping, Poultry furning, Soap-making.
Jammu & Kashmir	Spinning & weaving, Agriculture, wood work including card-board work, Home craft.	
Kiska la	Spinning & Weaving, Agriculture & Gardening, Wood work, Leather work, Fottery & Clay work, Faper & Card-board work, Metal work, Palm-lesf work, Needle work and embroidery, Basketry (Any one from the each group).	
Malhya Pradesh	Spinning & Weavin, Garden- ing, Agriculture.	Wood work, Leather work, Pottery/Clay modelling, Tailoring, Card-board work including paper work.
MA Dha.S	Spinning a Jeaving, Garden- ing, Agriculture, Kitchen work.	Leather work, Pottery and clay modelling, Teiloring, Card-board work, Metal work, paper making, Bee-keeping, Poultry farming, Mat-weaving, Reedle work, Fibre and Grass work, Basketry, Soap-making.
MANIFUR	Spinning & Weaving, Card- ening, Wood work, Pottery, Clay Modelling, Tailoring.	
Mylore	Spinning & Wesving, Agri- culture, Wood work with paper and card-board work, Home Craft.	Gardening, Leather work, Card-board with paper work.
OHISSA	Spinning & Weaving, Garden- ing, Agriculture, Wood work, Card-boord work, Metal work.	

State	Main Crufts	Subsidiery Crafts
pun j a b	Spinning & Weaving, Gamen- ing, Wood work, Home Craft.	Leather work, Pottery and clay modelling, card-board work, paper making, beekeping, poultry farming.
kajastha n	Spinning & weaving. Home Craft.	Gardening, Agriculture, Wood work, Fottery/clay modelling and papier machie, tailoring, card-board work.
uttar Pradesh	Spinning & Weaving, Gardening & Horticulture, Agriculture, Wood work, Leather work, tailoring, Metal work, Basketry, Cane and raffia work, Home craft.	
WEST BENGAL	Spinning & Weaving, Gard- ening.	Card-board work, Paper work and leaf weaving, Poultry farming.

It will be seen from the above table that practice for prescribing main crafts and subsidiary oraft vary. In all the syllabit are stated. The most tommon ones are spinning, weaving, gardening, agriculture, paper work, card-board work (including book binding), wood work (including toy making) and home craft. Following these come clay modelling, leather work, metal work, tailoring, needle work and work in a variety of local materials such as fibre, grass, leaves, bamboo, cane, willor, raffia and coir. Basket-making and mat weaving are including in this category. Some syllabit provide for activities like bee-keeping, poultry farming, pisciculture, and dairy farming. Only a few syllabit provide for sericulture, dyeing and printing, soap-making, papier machie, masonry, foundry, lead and wire work, oil pressing, or the making of "gur", pickles, "chatneys", "murabbas", etc.

Some of these crafts are prescribed separately as well as in combinations. Common combinations are: spinning and weaving; gardening and agriculture, hortimiture and agriculture; paper work and card-board work; card-board work and wood work; tailoring (or sewing) and needle work; basketry and came and raffia work;

(2) Training facilities for crafts at the Post-

Crafts form an important part in the training of Basic school teachers even at the post-graduate level. Usually two or three crafts are prescribed by all the syllabic although the practices differ slightly from State to State. The general trend seems to be to train each teacher-traines to teach two crafts - one called major and the other subsidiary. In a few institutions no distinction between major and subsidiary crafts is made and there are compulsory and optional crafts.

The crafts taught to pupil teachers in postgraduate Basic training institutions are listed State-wise in table 22 below:

Table-22

The second of th

Name of St	Oracio Cracio Cracio Cincia Como de Co
ANDHRA	(i) Cotton; (ii) Gardening
assam	(i) Spinning; (ii) Agriculture & Gardening; (iii) Carpon- try; (iv) Sericulture; (v) Smithy.
BIHAK	(i) Agriculture; (ii) Wood-work; (iii) Textiles; (iv) Card-board; (v) Spinning; (vi) Drawing & painting; (vii) Leather work; (viii) Photography.
drihi	(i) Spinning & weaving; (ii) Vegetable farming; (iii) Card-board modelling (iv) Wood-work;
GUJARAT	(1) Spinning & weaving; (11) Kitchen gardening; (111) Card-board work.
HIMA CHAL PRADESH	(i) Spinning & weaving (ii) Agriculture; (iii) Wood work; (iv) Leather work; (v) Art & painting.
KERALA	(i) Cotton craft; (ii) Agriculture; (iii) Wood work; (iv) Card-board work; (v) Book-binding; (vi) Bee-keeping; (vii) Bamboo work; (viii) Mat weaving.
Madhya Pradesh	(i) Agriculture; (ii) Spinning & weaving; (iii) Wood work; (iv) Horticulture; (v) Fret work; (vi) Clay modelling; (vii) Card-board work; (viii) Paper work.
MATMAS	(i) Cloth craft; (ii) Agriculture.

Name of State	
Mahak Shtra	(i) Spinning & weaving; (ii) Vegetable gardening & Agriculture; (iii) Paper work & Card-board modelling.
HILLIAYM	(1) Spinning & weaving; (ii) Wood work; (iii) Card-board modelling.
ORISUA	(i) Wood work; (ii) Agriculture; (iii) Spinning & weaving
PUNJAB	(i) Spinning & weaving; (ii) Agriculture; (iii) Wood work; (iv) Drawing & Painting; (iv) Leather work; (v) Clay modelling; (vi) Card-board work.
ked in Than	(i) Spinning & Weaving; (ii) Agriculture; (iii) Card- board & Paper cutting; (iv) Wood work; (v) Leather work; (vi) Clay modelling.
TRIPURA	(i) Agriculture; (ii) Spinning & weaving; (iii) Carpentry; (iv) Basketry; (v) Music or art.
uttar Pr. desh	(i) Agriculture; (ii) Home Science; (iii) Spinning - weaving; (iv) Tatpatti weaving; (v) Gardening.
West Bengal	(1) Spinning & weaving; (ii) Cane work; (1ii) Bamboo work; (iv) Coir work; (v) Carpentry; (vi) Paper work; (vii) Card-board work & Book-binding; (viii) Metal work; (ix) Agriculture; (x) Needle craft; (xi) Mechanical Drawing; (xii) ruine; (xiii) Decorative arts.

There are a variety of major and subsidiary crafts. The above table names about 33 crafts that are provided in different States by various training institutions. The crafts most generally taught include spinning and weaving, agriculture and wood work as major crafts and card-board modelling, leather work, tailoring and horti-culture as subsidiary crafts. Other crafts less frequently taught include sem-culture, smithy, metal work, book-binding, bee-keeping, bamboo work, mat weaving, fret making, paper work, wood turning, basketry, home science, coir work, needle craft, etc.

The theory of craft work is also taught and in many syllabit a certain percentage of total marks in craft work are specially assigned for theory. The time devoted for the practice and teaching of craft as well as the standards of achievement maintained in respect to quantity, quality and money value differ manning the institutions. The time a pupil-teacher devotes to craft work generally varies from 1g to two hours per day

although in some institutions it is as low as $\frac{2}{3}$ of an hour or as high as $2\frac{1}{3}$ hours per day. Date on this point are not adequate for exact generalisations. It may be a useful in a subsequent study to collect detailed data on these aspects and thereby suggest optimum standards of achievement for craft work.

(D) SOME RECENT TRENDS

In some States the trend in respect to training of craft teachers appears to be towards opening special craft wings or departments attached to teacher training institutions. In Bihar a special wing for training teachers' in crafts has been attached to the Reformatory School, Hezaribagh, and training is imported here in corporary (wood work) puper and card-board work, weaving, tailoring trade, leather work, cane & bamboo work, metal blacksmithy tin smithy, dyeing and printing, and also some aspects of the electricians trade. The Biher State Seminer on Prinary Education held in October, 1961 in Patna made a proposal for the conversion of at least one senior training school in each division into a training centre for craft. The Teachers' College, Saidapet, Madres, already has a special craft instructors course. Similarly, it is understood that Madhya Pradesh has recently started a craft texchers training section in the Post-Graduate Basic Training College at Bhopal. Rajasthan has a special handicrafts teacher training institution run by the Vidya Bhawan Education Society at Udaipur. Uttar Pradesh has a strong department at the Constructive Teachers' Training College, Lucknow. It is reported that Tripura is finalising its syllabii for craft teacher training.

The above facts indicate that training facilities for crafts teachers existin three types of institutions:

- (a) Institutions run by the Industries Department or Vocational Training Institutions;
- (b) Teacher training institutions under the control of the Education Departments of the States;
- & (c) Special graft training institutions or wings attached to the teacher training institutions for training of teachers in crafts under the control of the Education Departments.

In a large majority of Indian junior and senior Basic schools craft is usually taught by teachers trained in the Basic teacher training institutions at the under-graduate levels. In some secondary complexity

few States teachers trained in Basic training colleges are employed for the teaching of crafts. Basic teacher training institutions, however, do not seem to be the main source from which they get their craft teachers. In our questionnaire sent to the secondary schools one question requested them to state the names of the institutions in which their craft teachers had been trained. The institutes reported in response to this question have been listed as part of the State reporter in Appendix IX. Since it may be helpful here to see from where actually the secondary schools are at present drawing their craft teachers, the training institutions reported by the schools in the different States are listed below State-wise.

Table-23

Institutions from which craft teachers are drawn by secondary State schoolsa

ANDHRA

- 1. Junior Technical Schools at Sikandarabad, Nallapalli.
- 2. Government Technical Schools at Maredplli, Hydenbad, Mashirabad, Rajahmundhari. 3. College of Fine Arts, Hyderabad.
- 4. Allauddin Technical School.
- 5. Khadi Neul Muslieen, Kachiguda.
- 6. Government Polytechnics, Department of Technical Education, Vocational Institute, Ramganj.
- 7. Markasi Madursa.
- 8. Weaving Institute.
- 9. Vivek Vardhami Training College of Tailoring, Hydembad.
- 10- Ambar Charkha Training Centre, Hyderabad.
- ll. Village Industries, Centre, Hyderabad.
- 12. Home Science College and Multipurpose schools, teachers colleges, teachers training schools, Basic training colleges, arts and crafts schools and Khadi Gram Udyog, Hyderabad.

^{*} Based on the replies received from becondary schools.

Institutions from which craft teachers are drawn by secondary State schoolst BIH R (1) Basic Training School; (2) Sarvodaya Training Centre; (3) Teachers Training College. (1) Gujerat Vidyapeeth, Ahmedabad; (2) Vallabh Vidyabhawan, Bochasan; (3) Chimanbai Udyog GUJARAT.T School, Bawda; (4) Kelsward Mendal, Balasinor; (5) Government B.T.College, Rajpipla; (6) Stri Mandal, Surat. KERALA (1) Industrial Training Institute, Khadi Board; (2) Industrial Training School; (3) Government Training Institute, Beypose; (4) Occupational Institute, Trichur; (5) Post-Graduate Besic Training College, Trichur: (6) Basic Training Schools: (7) Ramvaran Technological Institute, Trichur. MAIMYA PRADESH (1) Industrial Training School, Bilaspur; (2) Soap-making Training Institute, Indore; (3) Cardening Training Institutuous; Indore; (4) Kala Niketan, Jabalpur; (5) Vocational High Schools, Jabalpur (also at Khandwa and Raipur); (6) Government Basic Training College, Jabapur; (7) Rrantiya Shikshan Maha-vidyalaya, Jabalpur; (8) Home Science College, Jabalour. (1) Lady Willingdon Institute for Craft, Madras; (2) Government Teachers College, Madras; (3) Government Technical Institute MADHAS at Coimbatore, Madras and Vanaspet; (4) Textile Institute, Madras; (5) Arts and Crafts School, Mumbakenar; (6) Government Textile Institute, Coimbatore; (7) Haring av Industrial Institute, Vidnolakisam. (1) Handicrafts School - Akola; (2) Industrial Training Institute - Amravati; (3) Government MAHARASHTRA Basic Training College, Amravati; (4) Handicrafts Teachers Training College, Bombay; (5) J.J.School of Arts, Bombay; (6) Elphinstone Technical High School, Bombay.
(7) Government Industrial Training Institute, Nagpur; (8) Cottage Industries Training School, Nagpur; (9) Vocational High School, Nagpur; (10) Khadi Gramodyog Mahavidyalaya, Hasik; (11) Industrial Training Institu e. Oudh; (12) Institute of Modern Art, Poons;

teachers are drawn by secondary .. teta schools 13. Khedi Grunovyoga Mahavidyalaya; Mast 14. Shortiya dola karsarani sabhat 15. Bulcana School of Carpentry. X - 11 5 1. Krishne Rajender Jilver, Jubilee Technological Institute, Bangalore. 2. Agricultural co. Leyen at Margulore, wherear and Behhul. (3) Government Basic Training Centres; (4) Department of Industries and Commerce. (5) Department of Horticulture; (6) Folytechnic in: titutions. (1) In titutions at Angul, Bahrampur, Like we will be Balander, Carringhour, 7 / et. Sumbalpur, Sundargarh act to Games (2) Sewing Twiloring Institute, Purl; (3) Foor Cottage Industries, Cuttack; (4) Jrinsa Johool of Engineering; (5) Arithi faha Yidyalaya, Bhubneswar; (6) Craft Talloring Centre, Mayurbhanj. (1) Yidyabhawan Hundi-crafts Institute, Blood of Illind Uddipur: (2) d. . (. Schools: (3) Institu-tions of Social belfure Departments: (4) Inquotrial Training In titute; (5) Sir J.J. School of Arts. Bombay; (6) Jamia Millin, Selhi; (7) Silsepur Crefts In titute, Bilsepur. (1) Junior Teacher Training Institutions; (2) Training colleges; (3) Extension H.T. b Mr. L. L. Teachers Training Institutions at Partupgarh, Corokhour and Auderpurt (4) wood work Institute, Lucknow; (5) Constructive Training College, Lucknow; (6) Arts and Crafts Centre, Lucknov; (7) Central wood work Institute, Allahabad: ange. Ic. A in Situte, Allahabad," (10) Art Training College, Allahabad; (11) Drawing and Handlorafts Centra, Allshobad; (12) weaving and Spinning

College, Varanasi; (13) Refresher Course Training College, Pratapgarh; (14) Home Science Training College; (15) Government Contral College, Kampur.

itete

Institutions from which craft teachers are drawn by secondary. achools:

WALT BENGAL

(1) Saroj Nathini Training School:

(2) Brahmo Training Schools

(3) Vishwa Bharsti; (4) Government Training College for Arts & Crafts: (5) Lady Brabourne College, Calcutta;

(6) Shippur b.E. College; (7) Shriniketan College, Industries Training Centre; (8) Folytechnical Institutes at Pulia, Kulyani and Chrirompore.

It is clear from the above table that the second ry schools are at prosent drawing craft teachers from a large variety of institutions including technical schools, art institutions, polytechnick departments, specialised craft institutes, industries departments. home science colleges, Basic training colleges, private centres such as servodya Tra ning Centres. Khadi Grassdyog, Vallabh Vidyabhawan, etc.; occupational or vocational institutions; technological institutes, agricultural colleges, departments of industries and commerce, reports at of horticulture; schools of engineering and institutions of social welfare departments. we have no information which indicates how far the training offered by these various types of institutions is suitable for secondary school craft teachers. The need for a careful study of the syllabii of these various institutions and of the coordination between the Education Department and the agencies organizing such institutions is great obviews.

à. The decision to introduce craft teaching in elementary and secondary schools necessitates an adequate supply of well trained craft teachers. Teaching crafts requires not only the usual professional knowledge about the theory, principles and techniques of teaching but also special technical knowledge of the crafts being taught. The lack of adequately qualified teachers has affected the progress of craft instruction in schools not only in India but in many other countries where craft is adopted as a school subject.

Various ways and means have been adopted to overcome the shortage. In various countries one or more of the following hasebeen tried: (1) Giving further technical training in crafts for a year or so to practising teachers who are already professionally trained, 'ii) appointing disploma holders from industrial or Vocational schools, or from arts and crafts training centres to teach handicrafts and subsequently giving them regular professional teacher training or stranging special short-term pourses professional during vacations or holidays; (iii) appointing an artisan or craftsman to teach crafts for a period during which a trained teacher works with him as an apprentice; (iv) incorporating the theory and practice of crafts as an integral compulsory part of the usual courses of teacher training.

The status of craft teacher training countries of the world is summarised as follows in the Geneva Report on "The Teaching of Headlerafts in Secondary Schools," (1950, pp. 25-26).

"Different ways of meeting the more or less transitional lack of qualified teachers, have been found.

One way, followed in India (Madras and Central Provinces and Berar), and Switzerland (Geneva and Zurich), is to organise supplementary technical courses for trained teachers. In the Union of South Africa (Cape Province and the Orange Free State), students withing to take up handicrafts are required to take a one-year specialist course after their teacher training course. In Austria, there are technical and practical further training courses at the academy of plustic arts in Vienna. In Holland, class teachers themselves in most cases teach handicrafts, after obtaining the necessary official permission.

Further training courses in handlerafts, organised for secondary teachers, and taking place in the holidays, also go some way towards meeting the need for both technical and professional qualifications.

Certain countries mention supplementary technical courses----but give insufficient details as to what degree of preliminary teacher training is required.

In Australia, Ceylon, Egypt, India (West Bengel), New Zealand, Panama and Thailand, it is common practice to appoint diploma students from industrial, arts and crafts, and other specialist schools, to teach handi-crafts

Handicrafts teachers for Argentinian secondary schools are to receive the same training as teachers for the vocational and technical schools.

In Canada (Ontario), England and Wales, Finland, France and the Union of South Africa (Natal), craftsmen are sometimes appointed to teach handicrafts at secondary level. There are special courses for them in England and Wales; in Finland they are required to have a certain minimum of teacher training, and in France to pass a preliminary test.

In Austria, England and Wales, France and Switzerland (Basel City), general secondary terchers who have taken handlcrafts as a special option in their diploma examination, may be appointed to teach the subject.

In Switzerland (Neuchatel), handicrafts are usually taught by specialist teachers who have passed a certificate examination that includes a test of their teaching ability, but they are not required to possess a teacher's certificate.

It is of particular interest that there are two special training centres for handicrafts teachers in hearth, which all normal school students wishing to specialise in the subject aust attend. In Norway, similarly a national school of handicrafts and drawing was established in 1938.

In some countries, facilities for specialist training do not yet exist, and handicrafts are then taught by class teachers with ability and linking for the subject."

CHATTE VI

ATRICATION OF THE PROPERTY ASSESSMENT

The Association: Corrittle on Basic Education in 1956. while raking the chaoryctions requading the need for a suitable administrative set up, sail: "Give us good administration and we will give you good Paulo schools". This statement holds true to a large extent in the case of effective organisation of any agreet of advantion. Administration has an important role to play directly as well as I directly in malling things function offetimily. In craft aducation the role of administration involv a planning concrete and clear objectives of the introduction of crafts at various stages, proporting well thought out walled wlinbid or curriculum in craft work, pranarine guide and reference books for the teachers of craft at various school lavals, providing an adequate number of suitably educated and trained trackers for craft work, arranging for timely and adequate ou willow of suitable raw-materials to schools, providing administs craft equipment ind workshop and building facilities for the day-to-day craft work and the storage of raw-muterials and finished craft products. In aliftion to the above, whintstration runt provide auttable suppressory or inspectorial personnel inforder to see that the schools' crat programme is maintained and improved in all of its aspects. "he fact that a supervisor or inspector is indrage of an area baving a mehor of schools, means that his varied experience can halp coordinate and arrich the craft mothers and are you may in the individual schools.

An attempt was rade in the present study to gather information about the existing administrative practices in respect to craft from the different State Departments of Education. Information was received from only 6 States and hence is quite inadequate. It is reported below however under several heads for whatever it may be worth.

Budget

To provider was reported of a separate budget heading for crafts. The State begartments generally replied that they do not make any separate provides for craft education in their educational budget. Gujarat, however, stated that it set arent 1.3% of the total educational budget for craft work in schools.

Accorradation

The State Departments of Education were requested to indicate formula if any adopted by them regarding the provision of accomposition for craft work per school, and the percentage of schools in each State which had actually had accommodation according to the prescribed formula. The information received from the States passes is as follows:

Guiarat:

The specification for accommodation laid down for craft work in Basic schools is as follows: For agriculture 5 acres

of land and irrigation facilities are provided. For other main exacts and of 30° x 18° are provided. In respect to middle or senior design schools, the question of accorrodation as a whole is acute in aroan ar as, and therefore, erafterm classrom adjustment is normitted. The accommention for agriculture in post-Scale schools or Tokshalas' as they are called, is executable at the rate of not less than 25 acres of land. The allotment of a particular course is rate only to schools me dans this accorro at any requirement.

Lagra is.

The apositied accomposition for exact work in jurior, somior and post-laids are out is about 15 so. It, were pulligred in non-laids achoost about \$4 so. It, were puil. Information is not available covarding the actual accomposition facilities in the achools.

Vahurauhtra:

Craft shada of he dimension of 30' v lat are puilt in seme large serior Basic schools. The mapher of such schools as mill.

Utter Pratagh:

Wor basic primary schools no accoss odation specifiestions are laid from for and the park. For sool craft and yearing in senior dakic schools accordation is provided according to the number of students. For tailoring craft no accomodation has been specified. In high and higher secondary schools separate rooms are specified for tailoring, metal work and scatter work. The size of the rooms desends upon the streamth of students. It is reported that almost hundred percent of the schools have the specified accommodation factlities for wool work, weaving, metal and leather work.

Ment Bennal:

There are no specifications regarding craft accommodations in junior Basic schools of read claration itself is characteristic and into a craft class. In senior Basic schools one room is allotted for each craft. The recommended space per attaction. The specifications for craft accommodations in higher secondary selects and rulti-purpose schools are the same as for under Basic schools i.e., one room for each class with the area being calculated at the rate of 15 age ft. For child. The actual accommodations provided in higher secondary schools is not mentioned but in the case of multi-purpose schools the specified accommodation has been provided in all schools. In post-Basic schools and in public schools one room is also allotted for each craft.

It is apparent from the above that the specifications laid down by the various State Departments of Education are different. In some States standard sizes of a craft classes or craft sheds have been evolved whereas in other States, the

eraft accomposation is calculated according to the number of children in the class. The rate for such calculations is 15 so. ft. nor child for Take schools in Test Tengel and Madras. It sooms clear that this aspect of the administration of craft work needs nor attention and form la neels to be evolved for the provision of accomposition for different crafts and for schools of different levels. This observation is guaranted by the fact that while giving their suggestions for improving craft work, lot schools suggestion that more space for craft work, lot schools suggestion that more space for craft work, lot schools suggestion.

Tout ment for that dork

By and large it an ours to be common machine for the Education department: to revide craft equipment to the schools. Home secondary schools reported that makers of the student-possess their even set of tools. This loss not seek to be a common grantice in any of the states. As requires the specifications laid form in this respect by the Departments some of the information received is an given below:

Andira Prudaah:

No formula has been devised for calculating craft equirment mode and individual schools are authorised to purchase their own equipment. In some multi-nursess schools purils are required to bring their own raterials and are given the finished products in craft; like moking and tail-crine. Usually the provious year's purchases are used for the current year and the current year's purchases are meserved for the following year. For renair of craft equipment no contingent fund is rade available to schools. The private multi-purces schools, however, reserve some grant for this purcess. Generally the schools make their own arrangements or the remain of craft equipment.

Although the above information is inadecante to varrant any general action about the country as a whole, it does indicate the need for a systematic study of the craft leadingment procedures being adopted in the litates and of their experiences with these procedures. Such a study would be of unloubted value in evolving effective ways of calculating the equipment needs of schools of different levels for different crafts, procedures for supplying the equipment to the schools and for making arrangements for its timely repair.

Gularota

In respect to craft equipment the position in Gujarat is similar to that in Haharashtra. In Basic schools the equipment is supplied by the Education Department. However, purils in Basic schools are persuaded to purchase their own spinning wheels. Individual non-Basic middle schools make their own purchases as equipment expenditure is subject to grants and is not to be borne by the Government in full. (Non-Basic middle schools are usually non-Government schools). It is reported that the schools usually get the equipment in time. The repair of equipment this is arranged for by individual schools. For equipment repair payment is made from

general grants wither than commute contingent grants. forkshop fiellities are not available for repair of craft equipment.

Madra:

Equipment required for cloth craft for a jumior Madic school having five grades is at a rate of Fa. 300/- per teacher. The regiment is sun lied by the Department in case of junior and senior Basic schools. For secondary schools the Education Department saretions the grant.

The remain of craft equipment is arranged by the cehocl managements and the expenditure is not from the general contingent first.

Maharachtra:

Specifications are laid down for the equipment required for introducin; each of the follown: crafts: wood work, agriculture and opinning waving in various clauses of the elementary stage i.e., clauses of the VII and it is reported that almost all schools have not the specified equipment. The procedure adopted is that thereeds of the particular schools are assessed by the identificative officers of the school-boards who then place the order for equipment of the Village Industries Hoard, Tembay. The grants for expenditure in crafts are cancioned by the Government. Generally the schools get equipment in time but in a few cases when the Village Industries Hoard is over-loaded the equipment comes to the schools rather late. For the repair of craft equipment the schools are authorised to employ local artisans and a contingent grant is given to the schools for this purpose. Teighbouring schools sometimes halp one another in the repair of craft equipment.

Uttor Prodoch:

The lists of equivarent prescribed for verious erafts are given. For agriculture work in Hasic primary schools a one to three-acre farm is mentioned as the requirement while for a middle or high/high r secondary school a farm of 3 to 10 acres and a bullock, if necessary, are mentioned as requirements. It is reserved that all the schools have the prescribed equivment for craft work. In Hasic primary and senior Basic schools equipment is supplied by the Department through Interim Zila Parishads and it is usually supplied in time. In the case of equipment for secondary schools the Department authorises the Government schools to make their own purchases. Other recognised secondary schools purchase equipment from their own funds.

31111 A 31311 1 2 2

As regards the repair of craft equipment no contingent fund is supplied to Basic primary schools. In senior Basic schools or junior with high schools a contingent fund of Rs.60/ per annum for wood craft, weaving and other craft is made available. For agriculture the repair of equipment, etc., is paid for through the same of farm produce. In government high and higher secondary schools the allotment of funds for equipment repair is made according to the strength of students. Other recognised high and higher secondary schools make their own provision for repair of craft equipment. All the schools are required to get the tools repaired themselves. There is no separate external agency created for this purpose. It is also mentioned that workshop repair facilities are not available in individual schools nor do the neighbouring schools help one another in this respect.

West Bengal

Lists of equipment to be supplied to schools for different crafts have been standardised and the quantitative requirement of equipment is determined according to the type of work and the number of students. In the case of junior Basic schools the equipment is supplied by the Department. All other schools purchase the equipment themselves. For the repair of equipment some contingent fund is made available according to needs. Generally each school makes its own arrangements for repair but sometimes the equipment is sent to other workshops.

Raw-Materials for Craft Work

An attempt was made to get information about the way the different States calculate the raw-materials needs of the schools and the degree to which raw-materials were actually supplied according to the prescribed formula. The information as received from six of the States is summarised below:

Andhra Pradesh:

No formula has been devised for calculating the raw-material needs of individual schools. The Department authorises individual schools to make their purchases. In some multi-purpose schools the pupils bring raw-material in the case of some crafts like cooking and tailoring. Raw-materials purchased during the previous year are used for the current year.

-		

Gularat:

In Basic schools the cotton for craft work is sumplied by the ducation warrant according to the following formula:

- If pounds in stantard III
- 11 pour la in at mard IV
- 3 rounds in standard V
- 34 pounds in standard VI
- A noun's in atundard will

This the Department generally supplies raw-materials, schools are sensitives authorised to murchase the raterial themselves. For non-Basic schools which are not Government ranaged the formula for calculating meds of raw-aterial and the surely of the raw-material is determined by the respective school managements. The Department rakes the purchase of raw-material during the newled February to Parch and these purchases are utilized for the maxt year. The raw-material is usually supplied to the schools in time. The requirement of raw-material to multi-nurpose schools is determined according to the reads of individual schools and the schools purchase the raw-material directly. In post-Basic schools the raw-material directly. In post-Basic schools the raw-material meals are determined as our provision made in the budget and the individual schools purchase required themselves.

Madrag:

The requirement of raw-material per school is determined according to the average master of mirils in each grade and according to the production tragets per student as specified by the Department. All the schools get raw-raterial according to these standards. The cotton for cloth craft is sum lied by the Department when the school requires it.

Maharaahtra:

Share is no special formula for calculating the rawmaterial meeds for individual schools. Houghly one to two
rupes per puril for cotton craft and E. 5/- for wood work
are sarctioned. Almost all the schools receive the rarmaterial on the above basis. The administrative officers of
the District school Heards purchase raw-material (cotton)
in open bazaar from cotton growing parts of the District
of from other district. The individual schools are also
allowed to nurchase the raw-material locally if it is not
suchlish by the District school Heards. Purchases of rawmaterial are made at the beginning of the session and the
material is supplied to individual schools in time.

Utter Pradesh:

For Madie primary and funior high schools a lumpsum grant per school is given through the Interin Lila Parished

and this body makes arrangements to supply the raw-materials according to the needs of individual schools. In middle classes attached to Governments schools there is a specific provision for raw-materials in the budget. The recognised non-Government schools make their own arrangements according to the requirement. The raw-material is supplied usually in time although delay occasionally results from procedural difficulties. The raw-material is supplied usually in the first or second month of the year. In the case of high and higher secondary schools purchases are made by the schools themselves from the funds supplied by the Department. Students are not required to bring their own raw-materials.

West Bengal

It has been reported that the amount of raw-material needed in a year is calculated on the basis of jobs planned for the year. The individual schools make their own purchases of raw-materials and thus get them in time. These purchases are usually made at the beginning of the academic session.

It is obvious from the above accounts of same States that some States adopt systematic criteria or bases for the supply of raw-material but on the whole it seems necessary to evolve some effective procedures for the same. Among the suggestions given by the secondary schools for promoting improvement of craft work 86 schools comment on the need for adequate and timely supply of raw-materials.

Disposal of the Finished Products of Craft Work - Utilistion of Income from it:

An essential corollary to the introduction of craft work in schools is the disposal of the finished products of craft work and the utilisation of income from it. The effective utilisation and ready disposal of craft products is essential for reasons such as the folloing:-

- 1. It provides stimulus for producing good finished articles and hence acts as a check on unsystematic and shoody craft work.
- 2. It provides a psychological satisfaction to the children involved in the production of the articles when they realise that their goods have demand.
- 3. It can help the individual schools or the Education Department in recovering some part of the expenditure incurred on craft education.

These reasons pertain largely to the economic aspect of craft work. They do not deny, however, its educative value and this of course is the main reason for their being introduced in the school this is never disputed. Some economic gain can result for the systematic organisation of craft work and this helps in ensuring the systematic and scientific practice of craft work.

Information received from some of the States regarding the procedures adopted for the disposal of finished products and the facilities available in the schools for storing the finished articles is as follows:

andhra Pradoch:

In Junior and senior Basic schools almirabs and boxes are supplied for the storage of finished craft products. For the disposal of craft products the nostion has been reported as follows:

Jumior Basic Schools:

- 1. Hanks are given to Khadi Hourd;
- 2. Veget bles are taken arry by purile;

Tentor hade Schools:

The araft products are sold in the industrial exhibition.

High Schools

1. Products are sold in the annual school fairs and/or given away as prizes in sports.

Multipurpose schools:

- 1. The dale of finished products is organised.
- 2. Proviously the products were used for supplying the Mational Cadet Corps with funds and refreshments. But since there is no budget for refreshment now, this practice has been stopped.
- 3. Articles prepared from cloth; vegetables and foot products are taken any by the pupils.

Ting junior and somior Basic schools the factors detormining the rule price of finished products are:

- 1. Recovery of the costs
- 2. linglest value.

In high schools the sale price is the cost of the raw-materials used.

The Department has some economic expectations from sale of eraft products in Basic schools but not in other schools.

The income from the disposal of crafts products is utilised in junior Basic schools for children's welfare; in senior Basic schools for successful folder for cattle; in high schools for the purchase of craft equipment and improvement of the Bepartment; and in multi-purpose schools for the improvement of the craft department. The actual average income from the disposal of craft products in junior Basic schools is recorted to be about by 15/- per school. In respect of a typical senior Basic school it is reported to be by 90/- from the 'khadi' craft and by 800/- from agriculture.

Guiarat:

The way craft products are stored and disposed of is almost the same in Oujerat as in Maharashtra. It is also mentioned that on the sale of 'khadi' a rebate of 25% is granted to publis and teachers over and above 10 maya paise of Central Government rebate. In the case of multi-nurpose schools it is reported that the sale arise of finished products is determined by local market price. The average income per school from craft work in case of Hasic school has been reported as follows:

Spinning and Mearing		P7.	20. A7
Kitchan-anrdening and aericultura	Militing at Militar	P#.	124.93
Card-board and wood work	6500 9	F. s	72.89

Madras:

The schools are provided equipment for the storage of finished products through the Khadi Development Department. The prices of such products are prescribed by the Rhadi Development Department. The economic expectations from craft of spinning and waaving in Basic schools have been reported as follows:

Grade	ingh wage high	(005)	20	hank	g r	er	mi	11
Grade	IV	400k	20	hank	y ji	e T	pup	11
Grade	V	W INN	ვი	hankı	s p	ar	ynayı	11
Crale	VI	gab)da	40 + 4	hank:	yd a p	or s.	pup of	11 cloth
Crade	VII	ACTOR-	40 + 6	hanks	q r hy	or e e	pun of	11 cloth

The new income from craft work is given to the management of the schools for providing clothing and food to the school children and for equipment.

<u>Mahara shtra</u>:

For storing finished craft products the schools are provided with time and wooden cup-boards. For the disposal of these products the following stops are taken:

- 1. Pupils are encouraged to purchase 'khadi' produced in schools.
- 2. Efforts are made to sell the finished products.
- 3. Government officers are requested to purchase their stationery requirements from schools.

In determining the sule price of finished products, the cont of raw-materials, as well as labour and depreciation charges are taken into account. The Department expects to recover through the sule of craft products, the expenditure on raw-materials as well as labour and depreciation charges. The months recovered expendited to the primary education fund. The average income from the disposal of craft product per school has been reported as follows:

Spinning & baving - 1371

Agricultura - 165.5%

Hood work - 143.74

Uttar Pradasi:

The yarn from srinning is stored in boxes. In middle or junior high schools the products of craft work are stored in a resp or in small godowns in the school.

As regards the disposal of finished products the yarm is usually given to the khadi bhandard. Cloth and other articles re usually given to the students but semetimes sold for nominal reies. The farm produce is cartly distributed among the students and partly gold in the market. The sale price of finished products is generally fixed at the cost of the raw-materials utilised. In the case of farm produce the prevailing market rates are approved. This crafts are taught as a subject and not often any profit motive some profit is expected from a ricultural farms and from spinning and weaving. From Basic primary schools there is no income in cash. In fittle and secondary schools the income from craft is deposited in their accounts and nurchases and other necessary expenditure are made out of it. In Government schools the income from craft materials deposited in Government account. The income from the sale of agricultural farm produce of senior Basic schools is deposited in the school account and is utilised for the betterment of the school farm etc. The income varies from school to school.

West Beneals

The finished craft products are stored in a godown. For their disposal meals, exhibitions, etc. are arranged. Articles are murchased by the students as well as by the people in the neighbourhood. The writers of finished products are fixed according to the price of raw-materials and the wages of the students are determined by the number of hours, devoted to the production. In the case of junior and senior Basic schools, the Department expects some economical return from craft work and income from the disposal of craft products is deposited in the treasury. Until very recently the Government directed schools to use money from the sale of craft products for school meals and uniforms.

It is clear from the above descriptions that the facilities provided for the storage of fi ished craft products, policies regarding the economic expectation from craft work and methods adouted for the disposal of craft products vary considerably among the six States reporting. The States have siver information regarding the economic returns in different units. Some, as in the case of Maharashtru, have stated returns in turns of percentage of the excenditure on raw-meterials, as well as labour and deprecration charges recovered. Some States have reported the economic return in terms of rong for each craft and some have in terms of hanks of yers and yards of cloth. It is thus very difficult if not a impossible to formalded about the economic returns a few conversation craft roducts in the various States.

Supervision and Instruction of Craft Jork

In order to ensure that the schools get the physical facilities like accormodation, raw naterials, and equipment as well as craft teachers in time and according to the crafts prescribed in the schools, regular check through some supervicory machinary sooms to be elsential. Supervictor is also nested to ensure the affective wraction of craft in the schools. Two types of supervision are generally meded - supervision of the day-to-day working of the craft activities and periodical or occasional supervision by some higher and presumably more competent authorities who can also act as a liaisonbetween the schools and the education department. Out information with respect to the encervisory practices comes again from six States only. It indicates that the day-to-day supervision is governly done by the craft teachers and the headrasters of the respective schools. The practice in respect to supervision or insaction of craft work by some competent authorities at the lavel of the Education Department, varies from State to State. In Andhra, there is no particular arrangment for inspection in craft. It is reported that Deputy Directors and Deputy Education Officers inspect the schools in general. In Cularat for Basic schools, such of the Assistant Jamity Educational Inspector and have taken some Paric education course are annointed to supervise and inspect craft work. For non-Basic primary schools, Assistant Deputy Mducational Inspectors are in charge of the supervision and in middle Basic schools boguty Dducational Inspectors inspeat craft work along with other work of the selection in high achoris, higher secondary achoris and post Pasic achoris Deputy Educational Inspectors or Educational Inspectors are entrusted with minervision.

In Maharachtra some Assist of Deputy Education Inspactors trained in craft work supervise and inspect the craft work in princry and middle schools.

In Madras, the craft work of junior Basic schools is supervised by the Deputy Inspectors of Schools and the Regional Craft Supervisor. In non-Basic/primary schools and senior Basic schools the Deputy Inspector of Schools is expected to supervise craft work along with other activities of the school. In hon-Basic middle schools and high schools, the District Education Officer has this responsibility.

In 11.7. at the wrimary and middle stage some number of the listrict Inspection Staff such as a Sub-Deputy Inspector of Schools or a Deputy Inspector of Schools do the supervision work. In high schools the supervision is done by the District Inspector of Schools and the Assistant Director of Education (Rasic). It is reported that many of these officers have been given in-service training in crafts and that there is a scheme for givin, such training to all the officers.

In West Bengal no arrangements exist for the supervision of craft work at the level of the Education Department.

From the above it is evident that generally there is no provision for tenarate personnel to supervise and inspect erift work. I more effective organization of craft work would arrange for some personnel to spend full time in supervision and improvement of craft bractices in the schools. In this respect the example of the United Vingdom might well be followed. There craft supervisors in different regions see to it that the schools have the facilities necessary for the organization of craft work and that the department craft practices are organized systematically and established live. In addition these supervisors give guidance to the craft teachers, make their experience of different schools available to all the schools in their regions, and organize scalings, refresher courses and in-service training courses. Occasionally, national scalinars are also organized where the experiences of the different regions are exchanged.

In addition to the administrative aspects discussed above there are other things for which the Education Department has to be responsible. Among these additional responsibilities are:

Syllabii Pramration:

A perusal of the various syllabii for different levels of schools of the various States leaves much to be desired. Some of the striking limitations of our existing syllabii seem to be:

- i) The absence of a Very clear statement of the objectives of eraft education in functional terms;
- ii) Absence of a well worked out functional targets of achievement for the different grades;
- 111) Lack of clear instructions about the master of crafts to be taken up by a school and the practice of craft work in the schools;
 - 1v) Inadequate instructions about the mode of conducting examinations in craft work, the different aspects to be taken into consideration while assessing the craft work and the weightage to be given to each of these aspects.

In the light of the above observations about the craft syllabif it may be appropriate to invite the attention of the State Departments to the need for their revision. Only, recently craft is being introduced at all levels of the Indian school system. The possibility of introducing new crafts suitable to the local needs and availability of raw-materials may also be explored. Systematic experimental studies will have to be undertaken in different states for evolving graded syllabil for such new crafts.

Literature on Crafter

At present there sooms to be a dearth of suitable literature on writing crafts. Steps should be taken to produce reference books, source materials and guide-books for craft teachers of wardows levels and for different crafts. Suitable literature on the wardows crafts needs to be produced also for the children of different levels.

Training of Graft Teachers:

Another important responsibility of the Education Departments is to make available to the schools suitable craft touchers with adequate educational background and training. At present there are asic training colleges and schools which give some training in craft work. It has to be seen how far this training is adequate for mirroses of teaching crafts a factively in the schools. In addition to the training colleges there are other craft training facilities being sponsored by Government as well as non-Government agencies. Detailed account of the existing training facilities in India is given in Chapter V. But it may be worthwhile to mention here that there is an urgent need for the State Departments to survey and assess the existing craft training facilities in the respective States and to coordinate their programmes with the meeds of the schools at various lasts. The syllabil of the different training institutions should also be scrutinised and if necessary revised.

CHAPT IL 7

STUDY OF CRAFTS IN THE SCHOOL SYSTEM U.S.A.

I. U.K.

Historical Barapactive

Nandieratt for girls, meedlework was first introduced in the law in the electrical as early as 1840. According to the revised code of 1862, needle work was made a compulsory subject for girls and schools were required to reach certain standards in this as well as other prescribed sojects before they could qualify for the receipt of a grant. In the year 1880, the scope of medlework was expanded and called "domestic economy". Domestic economy was a highly organised course and included such specific studies as rules of health, the management of a sick room, cottage income, expenditure and savings, food - its composition and mutritive value.

For boys no hand work was made obligatory until the year 1800 when drawing was introduced as an obligatory subject in schools for older scholars. Meanwhile instruction in wood craft, known as mamual trainingly was beginning to develop. fullest and most enlightened conception of this subject was to emerge on the continent, in Sweden specially, and from there it spread to Great Britain and on across the Atalatic. Manual training was first given official recognition in England in the year 1890 when the Commission on Clementary Education Acts recognised, in its recommendations the need for introducing systematic courses in handicrafts or manual training for boys corresponding to the needle work and other practical work for girls. After 1890 technical education (art & craft) spread rapidly in England and wood work was recognised by the Education Department as an elementary school subject. In 1890 the Art and Science Department laid the following conditions for manual training classes to qualify for the grant:

- The instruction must be allied to drawing, i.e., 1. the work of the munils must be done from drawings to scale previously made by them.
- The instruction must be carried on continuously throughout the school year for two hours weekly. The two hours might include ly hours for drawings made in connection with the practical work.
- The work is to be done with tools in ordinary use in handicrafts in wood or iron and in properly fitted workshop wholly devoted to the purpose.
- Time devoted to handicraft must be in addition to the 20 hours per week prescribed as a minimum for the instruction in the compulsory subjects of the Code of the English Education Department.

At the hardnning of the 20th century some minor revisions were again made in the scheme of marcal work in the schools. In 1905 the overall hard work scheme was as follows:

Upto 8 years - Kindergarten work

From 8 to 10 years - Famer sutting and folding, paper and cardboard modelling with clay or plasticine, drawing with pencil and crayon, brush work, introductory needle work.

10 to 12 years - as above but developed and applied. (also where possible; boys - light wood work, - girls - elementary needle work).

12 to 14 years - boys - wood work proper; plastic modelling; gardening; girls - needle work, cookery, laundary work, hous -wifery, gardening.

14 years and over - as above; more advanced; (higher grade and for boys - metal work and continuation schools) science handicraft.

In the 1920s the scope of handicraft in elementary schools began to widen. In addition to a specific and basic course in hand work or domestic science it was considered whorthwhile that boys and girls be given the opportunity to experience as wide a range of other practical activities as the circumstances of the school negmitted. Suggested activities included mardening, practical science, book-binding, basket making, weaving, knitting, carving and for boys scme handman's courses as prescribed in the books for Boy Scounts.

A creat majority of secondary schools had only one craft i.e., wood work. Metal work could not be introduced in many schools because it necessitated a second workshop.

Present Position

Infant and junior schools:

Practical work is well established in infant and junior schools. In the junior schools the pressure of the selection examination has tended perhaps to lessen the attention to handicrafts. Recent emlightened alternatives to the selection examination may bring a further breadth and freedom to the junior school course and allow more emphasis to be given to practical studies.

Secondary School Stages

While formal technical education was at first confined largely to the junior technical schools, and more recently to the technical high and multi-latoral schools, it now seems that restoraibility for this kind of work is about to be shared widely by modern and grammar schools. In some areas practical work in schools is being described as "handieraft and technical studies." Here and there grarmar schools which have struggled along for years with a solitary wood work master are finding themselves with a technical wing commising porkshops for wood, netal, and drawing. The modern schools, too, are being equipped with the necessary workshop facilities for these added responsibilities. In the secondary modern schools handieraft is taught to all classes i.e. from 11 to 15 years of age. It is obligatory and is ireluded in the examinations. Two hours or half a day a week are devoted to it. In the secondary grammar schools, handicrafts are obligatory only in the first two or three cleases (age 11 to 14) and thereafter becomes an optional subject that may be offered in the school certificate examination taken at about the age of 16. As a compulsor; subject/two periods Lin H or shout 14 hours per week are devoted to handlorafts. At the higher level, where the subject is optional, three periods ombined or two combined periods and one single period (% hours) suffice. White brafts constitute a separate subject in both secondary modern and secondary grammar schools, teachers are encouraged to integrate the Lwork with other subjects, in the Y CA base of girls, art and of demestic science, and with the childran's general activities and interests.

Aims of Teaching Handicrafts *

The aims of toaching handicrafts in U.K. can be stated as follows:

- to develop the mind through the use of hands;
- 2. to give first-hand acquaintance with traditional crafts and skills;
- 3. to provide experience of the discipline imposed by intractable materials and the use of tools;
- 4. to provide opportunity for successful achievement;
- 5. to develop aesthetic standards;
- 6. to stimulate imagination;
- ?. to discover interest and vecation.

^{*} Teaching of Handicrafts in Secondary Schools. Geneva: International Surcau of Education, 1950, p. 137.

Syllab1:

There we no official or set bandieraft syllabi but the following gives a fair idea of the work done in the vorious schools:

- a) Woodwork: furriture, toys, things for home and parden, model aeroplanes and ships.
- b) Metal work: "oneral bench and forgo work, rachine work (as for model engineering) and art work in copper.
- c) Weedle work: Knowledge of the tools and raterials required for making garmants and household articles.
- d) Book-binding, making letters for printing, printing on textiles.
- e) Portery and plantics may also be included in the secondary handierafts programmes.

Boys do wood work and metal work and girls needle work. Occasionally girls are interested in wood work and retal work but their work in them is in no case limited to making household articles. (Teaching of Handicrafts in Secondary Schools - p. 138).

Method of Teaching

Circular Mo. 1161 of May 1990 on wractical instruction in elementary schools roads as follows:

"The Board are not disposed to consider as adequate any scheme of practical instruction for older boys unless it includes a training in the skilled use of common tools for the making of common objects serving some useful purpose which the boy can himself recognise..... The realisation of this aim will entail the ultimate provision for all older boys of at least two years course in handwork, involving the use of a varying extent of both wood and retal and of other materials as circumstances require".

As experience and experiments in teaching handicrafts at different lovels accumulated, improvements were gradually introduced. Tradesmen-teachers, for example, made a plea for the isolation of the subject. Auring the early years of the present century attempts were made to correlate handicraft with other subjects of the curriculum. During the 1920s, self—expression or free activity periods became popular in handicraft teaching. In the same of free expression tools and equipment were sometimes damaged and material was wasted. The first-aid cabinet played an important role : Formal teaching took a back seat and children were encouraged "to get some wood and make something". A great deal of painting was included

in the course and the finished work, though bright in colour, was often slip shed and devoid of the elements of sound construction. Like so many immovations, from hands of capable achieved real success here and there in the hands of capable teachers. On the whole, however, there seems to have much waste. The undisciplined freedom became a concern, to the authorities and the reaction against it emphasized the advantages in sound tool training which had seen provided under the old more rigid formal teaching nothed (page 100).

puring the 1930s, a further steps were taken to improve craft teaching. Process sheets became popular. In addition to these drawings a boy would be given a work sheet on which appeared a full sequence of directions. This to some extent relieved the tracher since once the process sheet lad beam designed it could be used over and over. Furthermore, during individual work when all boys were nainly different articles, the sheets enabled the boys to work on their own without constant reference to the teacher. More recently the use of process sheets as a teaching device has been exiticized for being the rigid and not allowing the boys sufficient scope to discover things for themselves. Seen in this light the use of process sheets and the criticism of such use, constitut one phase in the gradual evolution of better handicraft teaching methods.

It seems now that in U.K. there are no official instructions as ragards craft teaching methods. Those in use vary considerably from one teacher to another. Teaching is now more individualized than formerly although there are still occasions when class or group teaching is found useful. The teaching of wood and metal work, especially in the earlier stages, is mainly by demonstration augmented by instruction charts describing and illustrating tool manipulation, the shaping of wood and metal and the construction of joints. The boys are encouraged, however, to think things out for themeselves and as the course progresses they are exceted and the teacher for advice only when necessary.

Bizefof the Graft Clara

According to the 1901 day school court schedule, in the elementary schools the number of children receiving practical instruction from one teacher at any one time should not exceed 24 ani after 31st March, 1902 this number was to be reduced to 20. For the sake of conveience, double centres were established - workshops for 40 punits with two teachers.

The building regulations for the years 1904-7 laid down the following regulation for secondary schools:

"In every secondary school there should be and in every boarding school there must be a workshop or manual training room which should provide for not less than 15 nor more than 30 scholars under instruction at one time."

Examination

That handlers to should be included in the examination time-table was successed in the 1911 report of the Consultative Committee or Traminations in the Secondary Schools. From 1954 onwards ordinary Sevel as well as advance level craft work became examination subjects. The general nattern of these examinations to by is as follows:

Ordinary Level - Woodwor' and Metalwork

('ne theory 'aper - 'ron 1) to 1) hours

One duading paper - from 11 to 25 hours

Che practica? maper of 3 hours

) There some-) times combined) in a cirple paper.

(In the A.M.B. exeminations there are two practicals 2 hours and 3 hours).

Under the Melah regulations there are, in addition to examinations in wood work and metalwork, examinations in hardicast (combined woodwork and metalwork) at both lovels.

Ordinary Level. Technical Drawing.

Listed under different names this subject is normally examined by two papers each of 2 to 3 hours.

Advanced Lavel. Vendeer' and Metalwork

One theory caper of 2 to 3 hours

One drawing paper of 3/ to 4 hours

One mactical aper of 4 hours (or two separate parers of 1) to 3) hours).

(In the A. Hall - exeminations there are two papers one of 6 hours)

Advanced Level. Technical Drawing.

Listed under different names this subject is normally examined by two papers of from 3 to 4 hours each. One of these papers usually has a bias towards engineering though sometimes, as an option, towards building.

The details above give only a general picture. For a more careful analysis the various regulations must be studied closely. In the metalwork gractical examinations, for example, options are often provided involving machine work and specialised processes. Scaetimes a visiting examiner is involved. The differences of approach between the examiner hodies is more marked at the Advanced Loyal than at the Ordin by Level.

The whole question of public examinations in aractical work is an interesting one. It is clear that these subjects were first examined simply because all the other subjects of the grapmar school timeta le sere examined. It is generally held that in grarmar achools where children are mainly involved in academic strikes, not forgotting a heavy homowork programme, practical subjects offer a pleasant on erturity to get away from the desk. In this connection it is easy to see some econon aims between handleraft and physical educationl of cour m when practical subjects are required primarily as an opportunity for relaxation and ascape from study and without regard to an examination, their status tends to be lowered. Clearly practical su tects like 'anticroft have two parts to play in the secondary school programme. The general influence of a welltaught ore to the of great toch ical value and a nacossary feature of all-round aducational development. In addition the discipline involved in the preparation for a sublic examination is of value. Very often in the granar school both there objectives have to be rained within the commans of a double period (1) hourst a weet during the early yours and probably no more then twice this time in the firml two years. Because so little time is available in the rowled corricular some authorities feel that the examination in crafts should consist sholly or very largely of benchuor". There is another contrasting line of thought witch advocat a the extension of the more acaderic aspects of handleraft as well as nore advinced work in the dealer and history of craft work.

In the progent circu stances in H.K. many of the prolless involving protical studies appear to demonstrate the advantage of the comprehensive, bilateral or multilatoral In some accordary grantar schools the provision of handiera t facilities such as staff and workshops make it impossible for every boy to carry his practical work to G.C.F. level. Even where this is nessible, the opportunities in metal-ork are will behand that of woodwork as is indicated by the fact that the 1959 G.G.E. entries in metalwork are about whalf those for woodwork. Owing to the pressure of work and the range of subjects offered in the grammar schools it is likely that in gome cases the best practical talent of W.K. remains unitentified in terms of G.C.E. handloraft results. On the whole the boys good at academic work include cany who are also good at handicraft. Because practical subjects are attractive to most boys, many of them derive more satisfaction from doing hardicraft badly than from doing academic work In adhools where the courte in hardieraft is available only to the less able boys, the G.C.B. will show a large range of ability with often a considerable grouping around the border-line mark. On the other hand; the entries from modern schools, fewer in member, tend to show a better average standard. This would seem to be the expected result of a more selected entry working berhaps under nore generous conditions of both time and facilities. The comparision is interesting because practical subjects form the one aspect of miblio date inclines which bridge across all types of secondary achool. many secondary modern schools are better placed in terms of staff and equipment to offer candidates for the engal-retion in

handieraft than are take the received, for the examination was originally intended. It is call brown that proctical ability is not inso anably linked with accessic ability and since the accessor of handieraft ability is not a pronounced feature of the selection methods at II; it is only natural to surpose that a considerable amount of practical talent exists in secondary motorn schools.

Training of Teachers

Handi wift as a subject in the training college progra-

- There is the important general amount of landicraft which, like art, forms part of a general corros. This, under the came of hand ork, has been included in age may or another in training college curricula from the beginning. The provision of a general course of woodwork and metal work for non-specialized students has on the whole not been very general. It is considered by many that the training college should be the se college; that larger and that establishments for tracher training branch of school activity. In the case of handicraft, it is of additional importance that intending teachers should have the technical advantage of a sufficient training in practical work to assist them in the construction of rersonal teaching apparatus.
- 2. In the second case there is a particular work of the training of specialised teacher; of wood work and me all work. The old position is which some colleges offered hadicraft as a three year course while others did not carry beyond a two year period has been resolved now that all training college courses are of three years direction.

concerned, the students in general spend about a day a week at their main craft and half a day a week at their main craft and half a day a week at subsidiary crafts. There conditions lend themselves facilities are often available for extra optional time to be spent in the workshop. Decimical drawing and technology lectures are included and much supharis is directed toward the question of design. The tracking of adults in evening classes has always been one of the special responsibilities of the handieraft teacher. And in this connection the train no college has to tackle the Juni problem of teaching the student to teach boys handieraft and of extending his experience in or fit work as far as possible at adult level. As a rule retail work is the subsidiary subject taken where woodwork is the rain craft and vice-versa. Many colleges are also able to include tuition in some of the ligher crafts such as book-binding, pottery, backet making and weak-ing ate. together with some ractice in art.

At the final examination, papers are set in mactical work, drawing and design, technology and the study of teaching method applied to the teaching of hardicraft. In addition there are the papers in medicational and bedazoric studies and thus related to subsidiary academic or other subjects which the student has elected to follow. Fuch of the examination of the students is based on the parsonal assessment rade by tutors and lecturers and external examiners over the whole period of the course shich usually includes pesides of teaching exactice in local schools.

The training of handieraft teachers is now almost fully in the hands of the training colleges. In rost cases this has meant weedwork only. Magently, however, (1958-59) many training colleges have added metal working facilities. The training of handieraft in the colleges has thrown an extra responsibility on the grapmar schools where during the years 12 to 18 intending handieraft teachers require intensive specialised training. The resear school, as well as, public school or its aquivalent stream in other schools, has the responsibility for the development of skill over the 6 formative years corresponding to the traditional period of apprenticeshin. Handierafts is the schools are usually taught by specialized teachers.

Bunervision of Graft work

In rural areas bundlers to advisor are appointed. In large towns and cities/are local inspectors of handicraft who are responsible for the betterment of handicraft teaching. For house crafts local inspectresses and organisers are provided. The duties of such handicraft advisors or local officers responsible for handicraft include keeping a visilant eye on workshop conditions, facilities and safety and on the supply of materials; organising local refresher-courses and mintaining dontiets between teachers engaged on similar work. These advisory officers have formed their own association where local experiences can be exchanged and discussed at the national level.

Surary

History

- 1. The first bandieraft introduced in sirls elementary schools in 1840 was needle work.
- 2. In 1890 handwork was introduced in boys' schools in the form of drawing.
- 3. After 1890 woodwork was recognised by the Schools. Department as a school subject in elementary schools.
- 4. In the beginning of the 20th century the overall handwork scheme was as follows:

Unto A year 1

Findergeton work

From 8 to 10 years

Paper cutting and folding, paper and cardboard mode 1-ing with clay or plasticine, drawing with pencil and crayon, brush work, introductory needle work.

From 10 to 12 years

As ab we but developed and scalind (also where possible; boys - light woodwork, girls - the mentary meddework)

From 12 to 14 years

Nors - Wood work prover, plansticine, modelling; rardening; Oirls - Medde work, cookery, laundary work, housewitery, gardening.

14 years and a love (hi her grade and continuction schools) as above; more advanced; For boys - netal work and science burdieraft.

In 1970s the scope of handleraft in elementary schools becan to widen. In addition to specific basic course in hand work or dementic science it was considered worthwhile that boys and strip should be given the operaturity to experience as wide range of other practical activities as the circumstances of the school permitted. Suggested activities included gardening, practical science, book binding, backet making, weaving, knitting, carving and for boys some handlman's courses as prescribed in the books for boy scouts.

Agreat majority of secondary schools had only one craft i.e. voodwork. Metal work could not be introduced in many schools because it recessitated a second workshop.

Present Position

- 1. Practical work is known as an established principle in infint and junior schools.
- Pandicraft is taught as a subject in grapher and moder schools at the secondary stage. In the secondary moderal schools hardiera t is given to the children of all classes i.e. from 11 to 15 years of sec. It is obligatory and is included in examinations. Two hours or half a day a week and devoted to it. In the secondary grapmar schools on the other hand hardicrafts are obligatory only in the first two or three classes, the children there being from 11 to 14 years of age and from the 4th class onwards becomes an optional that may be offered in the school certificate examination taken at about the age of 16. At

the lower of these ten level ten meriods together making about 16 hours are toughly devoted to the subject results and and of the filther level threshorded to together or two periods and one special resident in all roughly 24 hours. Graffic considints a sense to subject in both secondary resemble and according marries administ head and according marries administration and are oversed to take rate the north with that of other subjects.

In the Junior schools in addition to light modernt for boys and elementary medicants for sirls other exational activities were as brokening, knotting, maketenadies and an introduced. In the second by schools dela learn deposite actions of mass boys are offered commanding and retained.

In order to provide sold standards of cort in bandsorafts apocial advisors and instructions are appointed to success
vise the craft sork of accosts. They are expected to keep a
vigilant eye on workshop conditions, ficilities and safety
and on the monty of exteriality or mades local refresher corrsee and paintain controls between trackers engaged on sinilar
sock.

II. U.S.A.

SANDAN CAN TO SANDAN CONTRACTOR OF THE SANDAN

Introduction

The United States Constitution relegates to the several states also that selections and actions relating to advection. While each State formulates a curricula for the guidance of its schools, the schools in each local community still enjoy a great degree of autoropy in the erganization of the courses of study as well as in other educations? matters. This loads to a great variety of reactions which rakes it difficult to give a general account of the place of the craft work in the elementary and secondary schools.

The schools in U.S.A. do not provide for a argarate subject of study under the anecific title 'Graft Work' as is the practice in India. A number of activities, however, which aim at providing work exceriences for children are included in the curricula of the various schools under titles such as 'Arts and Grafts' Practical arts, Industrial Arts, Home Scenadics, Agriculture letts, Insiness arts, Shopwork and so on. The great diversity in terminology used in the various terms, and the different respings attached to the various terms, add further to the difficulty of describing the generals' position of craft work in the United States.

Craft Nork as a Part of Art

To illustrate how craft work forms a part of Art work in some places, an extract is given below from the gisterest of scope and objectives of Art Education as legged of it is corriculum Devalopment in Elementary Schools (2006) for work

by the Board of Education of the City of You Borks

"Design and construction with various raterials. Use of tools, materials and products. Appreciation of the processes of industry."

The entricular for itta recommended in this publication includes, the following activities for children of the various grades.

Kindergarton - Orade 2

Manipulation of the experimentation with materials.

Clay modelling
Block building
Construction and design with rapor
Working with Wood
Manipulation of simple purposts

Trades 3-4

Clay no lelling: Non realistic arrangements, figures, boyls, tiles.

Imper : Envolopes, homes, booklets, toys.

Cloth: inimals and dolls using socks, oil cloth, cotton cloth bags, bungets, buts.

Yarn : Thaving purson, pocket books, pota.

Wood : Waine hammer, mails, saw, sand paper.

Graden 5-6

Clay modeling: postery forms, tiles, slab boxes, figures, non-realistic expression.

Faper : books, boxes, stage properties, cost mas, puppets.

Cloth : aprons, costumes, costume accessories.

Marving : place rata, scarfe, bags.

Wood : Original construction using wardety of tools.

In 'The Blamentary School Curriculum: An overview (1954), the New York State Education Department suggested that 20% of the time in the primary grades should be allotted for Arts and Crafts (including music) and 10% in grades 4,5 and 6 should be devoted to Arts and Music.

In the publication 'A Curriculum Guide for the Elementary Schools of Kansas' is sued by that State's Superintendent of Public Instruction, the Art Programme recommended that

children in grades T-TTT choold learn anipulation and cure of more complicated tools and materials. For classes VII and VIII it is stated that Art should include practical arts, industrial arts and home paring skills.

Industrial Arts

Arts, industrial Arts, home Arts atc., mentioned above, industrial arts seems to be the nost which a lopted bind of eract work. An attempt will therefore be made here to describe in greater detail the position of industrial arts advention in the United Status.

Mindretrial art: was one of two secondary school subjects with the greatest increase in encollegat during the decade and a half from 1834 to 1849. At the end of that carried, twenty five parcent of all secondary school pupils were encolled in dustrial art subjects - three-fourths of them in general shoe, wool carding and rechanical drawing. "In 1849, of the total school population in the junior high schools, 48.2 percent were escaled in industrial arts. In fact it is found nor than twice as often at that level them any other type of school organisation. Variations in percentages of regils encolled in industrial arts courses throughout that country ranged from 3.6 percent to 49.1 percent. Mighton states exceeded the national average."

Score and Objectives of Industrial Arts

Although industrial arts have meen included in curricula of the schools in a large meder of Itates, there is no unanimity about their scope and purpose. According to the Encyclopedia of Educational Research , "It is hardly surprising, therefore, to find some risunderstanding of the nature and purpose of industrial arts admost on and to encounter terminology used with widely different meaning."

Gordon Q. 'dilber in his book "Industrial Arts in Goneral Education", has defined industrial arts as "those phases of general education which deal with industry - its organisation, raterials, occurations, processes and products - and with the problems resulting from the industrial and technological

^{*} A media to industrial orto in Florida schools, Bulletin in (1950) by H. to howeth or Phonicon.

I maylogade of "theit one Remarch, Third thation id bion, 1960, The Fare Par Co., The York

dondon n. Milber. Industrial Arts in General Principal Ante and Addition, 1984. Character, Personal Visit Test Conditions and Softial Text Rook Company.

nature of society". This author thinks that in materal arts should not be a received whicht, but a wet of general aduestion. According to the Incyclopredia of Iducational Research" "The Industrial lets Polocy and Planning Consisted of the American Vocational Association has published a statement progenting the definition of injustrial art education and indicating its place in admention. This statement includes such concepts as the following: in ustrial art: is instruction in shop-work; it is an integral part of the general admostion magranes of all youth; it halve provide an understanding of the injustrial and technical aspects of iffe today; it shares in the responsi dlity for developing good citizenshin; it come man it with significant aspects of production, consumntion, and use of injustrial products and their affect on bully living; it involves actual experlences in planning, producing, using and servicing various tyres of consmer goods in corrol usaget it develops general skill and resource follows in working dith things technical and mechanical; it teaches fints, principles, and procedures about tools, rat "ials, mocesses, medianies and design; the materials used include words, notals, plastics, coranics. textilor, paper and other industrial materials; the processes and mechanics its fied include those related to electricaty. motors, engines, structures and other items of importance to all the people at home, on the firm, at work, and in reer atton; it encourages critical thin ing in problem solving related to these matters. The respense empresses experience and study in such ar as as wood wordne, retal working, power machanica, graphic art; an' crafts with general drawing and planning included in each." It is further stated in the Encyclopaedia the "this description of the score and nature of intermental arts in addely accounted today, but mich score in not always formy in the organisation and extent of actual programme"

Curriculum in Industrial Arts

There is no uniform practice regarding the contents of the compact for the verious grades and also the stage it which it is introduced. In some schools injustrial arts is offered from the beginning of the elementary grades to post high school classes. In some cases it is offered under some other mans or is parged of the the other school subjects. For example, in the elementary school programme in the State of Florida, injustrial arts are referred to as related arts and have been a commended from the lower elementary grades.

^{1 &}quot;A Guide - Industrial Arts in Florida Schools, Bulletin 12, 1959, A Tourid by Cirko agentment of Abucation, Tallabassen, Florida.

In Georgia, however, i dustrial arts are not generally recoemended below the seventh grade." At the secondar; stage, almost all secondary schools sees to include some form of industrial arts, and in rany cases it is a required subject at the beginning secondary school evols. According to the Encyclopaedia of Mucational Research "In most schools incustrial art : curriculum offerings are organized around some or all of the following areas: (a) drafting; (b) woodworking: (c) metal working; (d) nower mechanics; (e) electricity; (1) graphic art: and (4) crafts. From lindergarton through fourth grade, industrial art is usually not a separate subject but an enriching activity and a method of learning certain aspects of the regular units of sork under the regular made teacher. Occasionally there is a consultent for industrial art; who ardists the regular teach r upon invitation. In prodos Y and VI industrial arts ray be continued in the some manner, although in school; separate periods are alloeated to the work and special labor tories or work rooms are provided. A combination of both these methods is used in some schools. Another variation combines industrial arts with certain other areas such as hore making or art, and offers an integrated activity; In grades VII to IX injustrial art- 19 usually offered in an industrial arts laboratory equipped for one or note of the seven areas mentioned above. usually the boys and conctines both boys and girls are recuired to take some industrial arts. The trend is toward greater scope in the explitory opportunities offered students. In grades I to III industrial arts may costinue in teneval laboratories with exportently provided for more advanced work; or particular y in the larger schools, norw specialised laboratories may provide for rather intensive study in selected area".

Industrial Art: in the State of Florida

Because of the diversity of the syllabi actually in practice in the schools in the different States, it is difficult to give a comprehensive summary. As an illustration, of what goes on, however, there is given below, in brief, the syllabus recommended by the State Superintendent of Public Instruction for the Schools in Florida.

Industrial arts in the elementary grades (Grades I-VI)

Grada I

Teaching aurenations

Puci's shoul? learn to use the harrer, cross-cut saw

^{*} Industrial inta for Coordia Schools - A handbook for tode of and second attention is assed by the State Department of Education, Atlanta G.A.

Provelopments of Timestianal Persurah, Third Edition, 1939, The Properties of Timestan Ports.

rasp and sand mapor early in the year so that their actual use on needed objects may be accomplished with exactor ease and safety. The toucher should demonstrate the correct and safe way to use tools as the mode arises.

Material

Randmant: Fork banch or work table with a vise (kinder-garder size and perhaps moveble) hammers, say, files or rasps, clames, waint brushes and maints, sand paper, clay, news-rappr, cloth.

Supplies: Lumber from nows, 1/4" ply wood, nails, cartons, serab materials, strings, wire (stove pipe), becker.

Cruia II

Teaching Suggestions

Fugils should learn to use five or six tools early in the year so that manipulative work may proceed with greater ease and safety on meeded projects.

Fatorial

Rouinsent: Similar to grade one. May and block rlane and brace and bits which can be used with the help of the teach r.

Supplies: Similar to Grade one. May add yarn, care, raffia, inner tubos, etc.

Grade ITI

Teachine Ture off one

In addition to continued use of hand tools to change materials into a more useful form, children at this age level will enjoy and profit from visits to local industries and from selected films and slides. In the third grade the children may be expected to take more responsibility for planning their activities and following through to achieve desired results.

Equipment, paterials and supplies

May be the same as for grades one and two.

Grade IV

Teaching Suggestions

Pupils will show interest in more involved activities and manipulative processes than in the lower grades. The teacher may call on the industrial arts teachers for assistance in new tool processes and materials that may be included

in fourth grade activities. Continued use should be made of visual aids, industrial visits, and demonstrations by the teacher, the mudis and other teachers.

Roldment and l'aterials

at this grade lovel rore space may be recessary to earry on the activities. If a special craft roc. is not available or if an industrial arts laboratory is not feasible then additional povable equipment may be necessary. This may include saw horses, a iditional tools, extra work banches.

Grade V

Teaching jurgestions

Pupils by this time should have acquired the ability to use a few simple tools with a reasonable degree of skill. At this grade level industrial arts should serve the individual interests of ou dis by allowing them to plan and take seasonal personal interest and home activity projects. It also serve individual and group needs of boys and girls in social studies, music, science, arithmetic. Some of these activities will also serve the pupils leisure time needs.

Equipment

and more hand tools, and working equipment. The natorials will also be more varied and perhaus some of higher quality, specially for eifts and some personal interest projects.

Crade VI

Pranowork of Content

Paintenance of previously acquired skills. The extended use of ore difficult tool techniques, and a more advanced design expressed in:

Drawing: Falcing drawings or sketches with dimensions of simple projects.

<u>loodworks</u> Constructing items used in group activities in other areas, seasonal projects of personal value, gifts. Besides the skills and related learnings, gifts encourage generous and kindly attitudes towards others.

Matal work: Working with aluminium, copper (foil and 24 mage for tagging) and tin cans given an incentive to read about resources as well as tools and mamifacturing processes. Measuring thicknesses of metal, dividing cricles with compans, weighing metal, using metal cutting tools and shaping tools as well as finishing metal will given experience in rany areas as well as in maintenance of metal articles used in the home.

Cormics Making clay bowls, tiles, ornaments, ash trays, etc., by modelling, casting, coils, slabs, gives an emportunity for expression in design and also in colour. Coramics is one of the cliest of the craft; and provides an exc lient medium through which to study the life and living of many countries.

Electricity: Studying the sources of powers and the generation of electrical power is directly related to a multitude of things the cubils use every day. Constructing telegrich key sets and using dry cell battery to nower the set, a door bell and a bycycle light or horn will be of interest and value to both boys and girls. Even the repair of lamp and extension cor is may a uniertaken here.

Communications: Nesi les the electrical powered communications are livrers at this grade level, the use of lineless block cuts and simple silk screen reproductions will lend ruch to the study of communications in social studies, and language arts as well as their value to the student personally.

Craft: Leather, plaster of paris, keene coment, plastics, yers and raffic are other naterial; that are easy to work with and are usually available to trackers in almost any area. Whether they are of value because they can be integrated with other areas or whether they interest the student for leisure time activities, home maintenance, commer or production knowledges, they should be utilised.

Equipment and Materials

At the sixth grade level as many tools and materials as is practicable in Beeping with the needs and interests of the student and his maturity level should be used. In some instances where the equipment is available and the teacher is competent in its use, a power jig saw, a sander, and perhaps a wood lathe may be introduced. A separate shop or laboratory is ideal for the sixth grade if it is available.

As regar's the syllabus for higher grades the follow-ing schedule has been recommended.

Jumior High School (Grades 7-8-9)

Intal School
Emrolment

Musber and types of shops Subject Matter

OneShop

Courses

0 - 399

1- Comprehensive General Shop (Grades 7-8-9) Planning, and drawing, general wood, electricity, mechanics.

A Guide - Industrial Arts in Florida Schools, Bulletin

Total School	Aughor and Types of shops	Subject Matter Ar un Courses
400-609	1- denoral crafts (Include - Orado 7)	Crafts - leather, cora- mics, art metal, plastics or vative materials.
	1- Comprehensive General Thop (Grades 8-9) Twee Shops	Constant shop, drawing and planning, whoi, metal and mechanics.
700-585	l- Granal Hoolwork (Grade 7)	Craftwork including wood taught in woodshop area.
	i Drafting and Graphia (Grain 8)	Graphica Lab drawing photography, silk serven, lincleum block, hand press work.
	1-General Metapla (Metal, Electricity, Mechanics) (Graje 9)	Meetricity and makenics in metals shops.
	Four Shops	Cour ses
1002-1899	1-General woodshop (Grade 7)	General crafts including wood tunght in woodshop.
	1-Drafting and Craphica (Grain 9-0)	Drafting includes plann- ing and other graphics.
,	1- General Motals (Grades 8-9)	General metal shop will include electricity and metal.
	l- Home and Power Mechanics (Grades 8-9)	Home and power mechanics includes maintenance and operation of home equipment and small 2- and 4- stroke cycle engines.
1300-1599	Five Shops	Courses
	1- Crafts (Grade 7)	Leather, plastics, cera- macs, art metal.
1	l- Drafting and Graphics (Grades 8-9)	Planning mechanical draw- ing, elements of home planning, hand press work, silk screen and line- leum block work.

Contraction

Total School	Manhar and	Subject Matter
1300-1599	l- General Wood and Home Mechanics (Grades 9-9)	Tond shop to include area for home meets these and paint mance.
	1- Ganarul Motal (Grades A-C)	Metal shop to include introduction to cold metal, sheat motal, and foundry.
	2- Power Machanics and Cleatricity (Grant Def)	rower machanias and elect- ricity for paint-mance and operation of home equip- rent and small ?- and 4- cycle engines, basic electricity and safety.
	Mr Thong	Courses
1600-1900	1- Crafts (Grad e 7)	Handicraft: and loather, plastics, ceramics, and art motel.
	1- Drawing, Planning and Graphic Arts (Grayes 8-8)	iraving on planning and graphic arts.
	l- General Mood (Grades 8-9)	Hand and basic machine woodwork.
	l- Gomeral Metal (Grades 9-0)	Metal shop to include introduction to cold retal, sheet metal and foundry.
	1- Power Mechanics (Grades 8-9)	Fower mechanics for mein- tonance and operation of home equipment and small 2- and 4- stroke cycle engines.
	l- Gameral Plact- ricity (Grades 8-9)	Basic electricity and electronics.
		<u>n Schools</u> 10,11,1?)
	One Bhop	Courses
100-349	l- General Shop (Grade 10)	Wood, metal, drafting, and electricity.

Total School Eprolment	Manbur and Types of Shone	Subject Matter Areas
•	Two Shops	Courses
100-349	1- General Shop (Grade 10)	Wood, metal, muchanica, and electricity
	1- Drafting and Graphics (Grades 10-11)	Architectural drawing, mechanical drawing, blue- print, and hand and machine press work.
	Three shops	Courses
	(Orades 10-11-12)	
700-1049	1- Youd and Matala	Hand and raching woodwork and general metal work.
d	l- Drafting and Graphics	Mechanical engineering and architectural drawing, blueprinting, silk screen, and hand and machine press work.
	1- Vlactricity and Fechanics	Plactricity and electro- nics, basic auto and 2- and 4- stroke cycle engine mechanics and operation.
	Four Shops	Courses
1050-1399	1- Wood	Hand and machine woodwork.
	1- Drafting and Graphics	Mechanical engineering and architectural drawing; blueprinting, wilk screen, and hand and machine presswork.
	1 - Mlectrical	Plactricity and basic slectronics.
	l- Netals and Mecha- nics	General metal work to include sheet metal, weld- ing, forging, metal- forming machine.
	Mae Shops	Courses
1400-1749	1- Wood	Hand and machine woodwork.
	1- Drafting and Graphics	Mechanical engineering and architectural draving; blueprinting, silk screen, and hand and machine press-work.

-

Total School Emrolment	Mundor and Tyres of Thops	Subject Nather Areas
1400-1745	l- Matal	Sheet metal, walding, forging, metal-forming machines.
	1- Electricity	Milectricity and basic electronics
	1- Fower Mechanics	Auto and 2- and 4- stroke cycle mechanics, muin- tonance and recairs.
	isn Thaya	Courses
1750 - 2000	l- 'lood	Hand muching woodwork.
	1- Drafting and Graphics	Mechanical engineering and architectural drawing; blueprinting, ailk screen, and hand and machine press work.
	1. Notal	General metal work to include sheet metal, wald-ing, forging, metal-forming machines.
	l- Clootricity	Alectricity and basic electronics.
	l- Fower Machanics	Auto and 2- and 4- stroke cycle mechanics, main- terance and repair.
	1- Grafts	Handcrafts in wide variety of materials - leather, textiles, ceramics, jewellery, native materials, plastics, art metal.

Training of Tyachers for Industrial Arts

la in the case of curriculum there is no uniform eractice followed in the training of temchers for industrial arts. However, an example is given below of qualifications

A quide, Industrial Arts in Florida Schools, Bulletin 18, 195, State Department of Education, Florida.

prescribed in the State of Florida. The minimum requirements by this State for cortification for teaching injustrial arts may be an either of the following two plans.

rian OngThirty (37) semester hours are required in industrial arts which pust include not less than 6 semester hours in each of four of the following sub-fields (a) me als and allied industries; (b) wood and allied industries; (c) transportation industries; (d) graphic arts and allied industries; (e) electrical and allied industries, (f) handicrafts.

plan Two - Regular cortification in "Industrial Arts"
followed 'r' a parenthetical statement indicating by sub-fields will also be given in one or
or rore of the sub-fields where the transcript shows not less than 12 semester hours
in the first sub-field, not less than 8
semester hours in the second, and not less than
6 semester hours in such succeeding sub-fields.

According to the Encyclopaedia of Educational Research sportant the most important problem of instruction in industrial arts is that of securing an adequate supply of professionally qualified trachers for the field.... Although certification standar's vary considerably throughout the country, it is becoming rather common place to expect the beginning industrial arts teacher to have a four-year college degree which covers (a) liberal cultural subjects; (b) professional subjects in education, including special methods and student toaching; and (c) industrial arts courses that include basic training in a wide variety of shop areas and associalisation in at least one. A number of States require the beginning teacher to secure from 10 to 30 semester hours of additional oradit plus satisfactory teaching experience to qualify for continued service.

Evaluation in Injustrial Arts

As regards the practices adopted to evaluate results in the injustrial arts, Gordon O. Wiber writes There has been little by way of a standard practice in arriving at grades (marks) for injustrial arts students. In general, marks have been determined either by an estimate by the teacher

^{18, 1950.} State Department of Education, Florida.

^{1.} Gordon C. diber - 'Inducted 1 total in Consent Timertion, Second Edition, 1954, Interest days for those Company, Scranton, Pennsylvania.

or by grades a satemed to Amehed projects or to tests on information. Commismen a combination of two or norm of the ne bases is used. It is evident, however, that grades have been determined largely on the types of evidences (1) devalopnent of sixils as indicated by the Inished project, and (2) acquisition of information as shown in sullity to pass a test.... There are governl'blind' spots representing practions in monaur-mont that have been entirely ignor it. for example, almost no a tempt is made to most use the growth of students in incir a whity to think and slow proclema. other features that are disregarded are the extent to shick a student devalors consider knowledge, his ability to judge and appreciate design, and his worth toward the development of a hobby or a recruetional interest".

CHAPT'S A

CONCLUSIONS AND RECOMMENDATIONS

The present study is based on the analysis of syllabii prescribed for the elementary and secondary schools in the different states; the study of the reports and other literature relating to craft education in India and other countries, and the analysis of 730 responses received from secondary schools all over the country in reply to a comprehensive questionnaire on the organisation of various aspects of craft education in the schools. The conclusions derived in this chapter, therefore, are based on the different aspects of study in this report. These have been grouped according to different aspects of craft education in India. The recommendations are also based on the various problems emerging from the study. It is, however, felt that some working committees should go deeper into the various problems through observational studies and interviews with significant persons in order to prepare a set of recommendations. However, the study of the saterial made available has resulted in certain recommendations which are put in this chapter for consideration at different levels.

A. corcusions

I. General

- 1. Craft has been accepted as an integral part of general education in the schools in almost all parts of the world. Craft activities in various parts of the world include a variety of programmes such as manual or productive work, industrial and vocational arts, handicrafts and vocational programmes.
- 2. Increasing attention seems to be devoted to defining the objectives of craft teaching in schools. The generally accepted objectives in different countries seem to be (i) development of physical capacities; (ii) development of aesthetic taste and approciation (iii) serving as suitable media for developing self-expression, discipling as well as familiarity with raw materials, tools and social realities; (iv) providing traiming of senses; (v) formation of character and will; (vi) developing wholeness of personality, term spirit, respect for manual work, awareness of duty and satisfaction of creative urge; (vii) serving as a means of presenting the content of other subjects in a concrete form.
- 3. The generally accepted objectives of the teaching of crafts in the elementary schools of India seem to be: (i) developing manipulative skills; (ii) providing creative experience; (iii) developing character traits; (iv) providing experience of productive work.

- 4. In the secondary schools of India, the main objectives of the teaching of crafts seem to be (i) development of positive attitude towards work; (ii) development of technical skills; (iii) providing vocational experiences and opportunities.
- 5. Although there has been an obvious growth of opinion among the educationists and official circles in favour of the utility of craft work in schools yet there is no evidence of public opinion in support of this subject. On the contrary there is some evidence to show that various attempts for introduction of manual work in schools could not succeed on account of the want of the supporting public opinion. It seems that an attitude of apathy, if not antagonism, prevails in the public, towards the introduction of manual work or crafts in the schools.

II. The Present Status of Crafts in the Indian School

- 6. Craft forms a compulsory subject of central importance in all the elementary schools run on Basic education lines.
- 7. Craft is taught as a compulsory subject even in the non-Basic elementary schools in many States.
- 8. There is a definite trend in the country in accepting craft as an integral wart of secondary education. In most of the higher secondary and multi-purpose schools in the different States, craft has been accepted and recognised as a compulsory core subject.

TIT. Organization of Craft Work in Schools

- a) Choice of Grafts by Punils
- 9. There seems to be a trend in the direction of providing a variety of crafts in the elementary and secondary schools.
- 10. In the Basic schools the general pattern is to make provision for each child to learn one subsidiary craft.
- 11. In other elementary schools of the non-Basic type, a child is generally required to take up either one or at the most two crafts.
- 12. Most of the secondary schools provide only one craft for a student at one time. More than half of the schools - responding to our questionnairs - in any State, do not have any provision for the change of erafts during the secondary school course.
- 13. The elementary as well as eccoviary schools of the country do not seem to be using any scientific procedures for determining the aptitudes of pupils for

the various crafts offered in the schools. The most important basis for the selection of a craft by a pupil, as revealed by the present study, seems to be the provision of a craft in the school.

- b) The Bests for the Provision of Crafte in
- 14. Several reasons have been given for adopting a narticular craft in the schools. The schools are generally at liberty to choose from among the crafts prescribed in the syllabil. A large majority of the secondary schools however have reported that the crafts taught in them are linked with those prectized in the surrounding areas.
 - c) Time Devoted to Craft Work
- 15. At the elementary stage there seems to be a large variation in the time devoted to craft work in different classes of the same school, in different schools of the same State and also in the schools of the different States. The time ranges from 2 to 12 hours in primary classes and from 2 to 15 hours in the middle classes.
 - 16. The secondary school syllabii generally do not mention the exact time to be devoted to craft work.
 - d) Targets of Achievement in Craft Tork
- 17. To systematic attempt seems to have been made in evolving workable targets of achievement in different crafts both in terms of time and products for the various grades in the elementary and secondary schools. For Basic schools usually targets are laid down in relation to time, quantity and quality of work. These targets are proposed at three lavels—"tate, region and school. In some cases targets are also proposed in terms of movey value.
 - e) Syaluation of Craft Work

... K.

- 19. In the elementary schools run on Basic education lines craft forms an examination subject and the general practice is to hold an internal examination which involves examination in the theory of craft work, examination in the craft practicals and consideration of the continuous records of craft work maintained throughout the year.
- 19. Most of the syllabuses for elementary as well secondary schools do not give any suggestions for systematic evaluation or assessment of craft work in schools.
- 20. The practice in the secondary schools recording the assessment and evaluation of craft work second to be varying but maintenance of some type of records of a

have become an accepted practice in the najority of the schools. Passing in craft work is, however, compulsory in the higher secondary school examination in some of the States where craft has been accepted as a core subject.

- f) Duration of Craft Ecaching in the Schools
- 21. In the elementary schools run on Basic education lines craft is taught in all grades from I-VIII or upto VII in some States depending upon the duration of the elementary school.
- 22. In the non-dasic elementary schools the duration of craft teaching varies in States. In some States craft is taught in all the classes of the elementary school whereas in others craft is taught only in some of the classes.
- 23. In most of the secondary schools where crafts are taught, they are introduced in the VIth standard and continue upto Xth or XIth standard. In some schools craft is introduced earlier and does not go beyond the VIIIth standard. In some other schools craft is introduced much earlier and continues through out the secondary stage.

A Condate a part of the state o

- 24. The common crafts suggested in the various elementary school syllabil are: Agriculture, gardening, spinning, clay modelling, toy making, pottery, paper and card board work, book craft, home craft including sewing, tailoring, embroidery and wood work. There are a few crafts peculiar to some of the States. For Example, bamboo work in M.P., coir work, basketry and Estates work in Kerala and lacque industry in Assam.
- 25. The integrated syllabii for elementary schools recently adopted in some of the states recommend in the name of hand work, other activities such as, art, drawing, music, needle work and simple craft work for non-lasic schools.
- 26. In all, 44 different crafts have been prescribed in the different syllabil for secondary schools. But the most popular common craft prescribed in many of the syllabil are hand spinning and weaving, wood work, tailoring, metal work, needle craft and embroidery, leather work, pardening, clay modelling and papier machie.

27. The crafts reported to be actually practised in the secondary schools of the different States are as many as 41 in all. Spinning seems to be the most popular craft in a rajority of the States. Agriculture is popular in Mysors and Indhra, wood work is practised in a rajority of the schools in West Bengal, Orissa, Maharashtre and M.P. Among crafts for girls embroilery seems to be popular in most of the States.

V. The qualitication of Craft Mascher 17

In a large majority of junior and senior Basic schools craft is usually taught by teachers who 28. have had regular training in rethods of teaching in the Basic teachers training institutions where craft forms one of the aspects of training. In some of the decordary schools also Basic trained teachers are employed for the teaching of crafts, but Basic teacher training institutions do not seem to be the main source from which the secondary schools draw their craft tenchers. These secondary schools draw their tenchers from a large variety of institutions including technical schools; art institutions; polytechnic departments; apocialised craft institutes; industries' departments; home science colleges; Basic training colleges; private centres such as Harvodya Training Centres, Khadi and Gramodyog institutes; occupational or vocational institutions; technological institutes; agricultural colleges; departments of industries and commerce; department of horticulture; schools of engineering and institutions of social welfare departments.

VI. Facilities for the Training of Graft Teachers

- 29. The existing facilities for training in craft are mainly of the following three types: (1) technical craft training institutions run by the Industries Departments or vocational training institutions; (ii) teacher training institutions under the control of the Education Departments of the States; (iii) special craft training institutions or wings attached to the teacher training institutions for training of teachers in crafts under the control of the Education Departments.
- 30. On the whole the existing training facilities seem to be quite inadequate and limited. Due to the lack of coordination between Education Departments and the Departments organising technical craft training institutions, the existing resources are not being properly utilised. Moreover, the general experience is that for craft teachers in schools as well as the training institutions, mere technical training in crafts is not/enough

VI. Administrative Practices Nelstod to Craft

1 1/42

- a) Physical Capilities for anoth teaching
- 31. Building Accommodation for Graft Work in Schools:
 - 1) Some States provide a separate room for craft work but the position on the whole means to be quite unsatisfactory.
 - 11) The specifications laid down by the various Departments for providing accommodation for craft work per school are different. Tome States have laid down standard size of craft classes and craft sheds. In some cases the accommodation is calculated according to number of children in the class. The rate for such calculation is 15 sq. ft. wer child for Basic schools in Most Bengal and Madras. The study indicates the need for evolving systematic formulae or specifications for the provision of accommodation for different crafts and for schools at different levels.
- 32. Supply of equipment for Craft Works
 - 1) The general practice sames to be that the equipment is supplied by the State Education
 Departments. Only a few States have given
 some formula for the supply of equipment.
 For example, Madras provides equipment for
 cloth craft for a junior State school @ %.
 300/- per teacher. In some of the secondary
 schools a few students have been reported to
 be possessing their own set of tools. But
 this does not seem to be a common practice
 in any of the States.
 - ii) Some of the State Departments of Education have worked out list; of equipment for different crafts. But on the whole there seems to be a great need for working out systematic formulae or specifications for providing a set of minimum craft equipment to the schools.
 - 111) From the responses of the secondary schools it appears that the secondary schools seem to be generally quite satisfied with the supply of craft equipment.
 - iv) Adequate a rangements for the timely repair of craft equipment do not seem to exist in most of the schools.

33. Supply of Maw-Materials:

- 1) Some States adopt systematic criteria for the supply of raw-material. But on the whole the procedures are not systematic.
- ii) In most cases raw-materials are supplied by the Education Department. Only in a few cases the schools are authorised to purchase raw-materials in an emergency.
- b) Disposal of Craft Product 7 Prepared by the Itudents
- The policy regarding the uses to which the income 34. from the sale proceeds of the craft products should be put, seems to be varying in different Ttates. In Andhra Pradesh, for example, the Department expects the income from the disposal of craft products in junior lasic schools to be utilised for children's welfare, in senior Basic schools for supplying folder for cattle, in high schools for the purchase of craft equipment and improve-ment of the craft department and in multi-purpose schools for the improvement of craft department. In Madras the net income from craft work is given to the management of the schools for prograting possible cloth and food to the school children Tor Leguipment. In Maharashtra the Department expects to recover through the sale of craft products the expenditure on raw-materials as well as labour and depreciation charges. In Utter Fradesh it is mentioned that while crafts are taught as a subject and not with any profit motive some profit is expected from agricultural farms and from spinning and weaving. In middle and secondary schools the income from crafts is deposited in their accounts and purchases and other necessary expenditure ere made out of it. In Government schools the income from craft materials is deposited in Gverment account. The income from the sale of agricultural farm produce of senior Basic schools is deposited in the school account and is utilised for the betterment of the school farm. In West Bengal in the case of junior and senior Basic schools the Department expects some economican return from craft work and income from the disposal of craft products is deposited in the treasury. Recently the schools have been directed to use money from the sale of craft products for school meals and uniforms.
 - 35. The procedures adopted to dispose of craft products prepared by students vary considerably among the States. The most prevalent method of disposal seems to be that of sale in public either through auction or in the market. In many cases the products are sold to the pupils and the teachers in the schools. In some cases they are returned to

- pupils. Some schools, however, retain them either for their use or for exhibition surposes.
- 36. The different States adopt different units for calculating the economic returns from the disposal of craft products. Maharashtra, for example, calculates returns in terms of percentage of the expenditure on raw-materials as well as labour and depreciation charges recovered. Stre States have reported the economic returns in terms of hanks of yars and yards of cloth. It is, therefore, difficult to form any comparable idea about the economic returns from the disposal of craft products in different States.
- 37. From the analysis of the responses of the secondary schools it appears that the problem of the disposal of craft products is not being dealt with as carefully as it should be.
 - c) Andget for Craft Education in the
- 38. The State Departments of Education do not generally make any separate provision for craft education in their educational budget. Only Gujarat State has reported that it sets apart 1.3% of the total educational budget for craft work in schools.
 - d) Provision of Craft Teachers
- 39. In the junior classes of the Basic schools generally the class teachers teaching other subjects are expected to teach crafts/also. For the senior classes sometimes in some schools separate craft teachers are provided.
- 40. In the non-Basic elementary schools also the practice of providing a separate craft teacher does not seem to be followed.
- 41. A large number of secondary schools have at least one teacher per craft. The situation in Rajasthan and Maharashtra, however, is rather unsatisfactory in this respect, as only 32% of the schools in Rajasthan and 38% of the schools in Maharashtra have reported that they have got one teacher per craft. In Gujerat 46% of the schools report that they have more than one teacher per craft.
- 42. The position regarding the adequacy of staff for craft work in secondary schools varies from State to State. The range of percentages answering in affirmative is from 31 to 92. Schools in Gujerat, Maharashtra and Uttar Fradesh seem to be very much satisfied about the adequacy of the staff. In West Bengal, Rajasthan, Orissa, Mysore, Sihar and

Andhra at least half of the schools feel that they have adequate staff for craft work. Fewer schools in Madhya Pradesh and Kerala report that they have adequate staff.

- 43. Generally it appears that secondary schools employ teachers who are Matric-pass and who have had some training in crafts. It is reported by a large maker of schools that they have difficulty in securing good trained teachers for the teaching of crafts.
 - e) Burervision of Craft York
- 44. Tupervision of the day-to-day craft work is generally done by the craft teachers and the school headmasters.
- 45. At the level of the Education Department generally there is no provision for separate personnel to supervise and inspect craft work of schools. In this respect the example of the United Kingdom might well be followed. There craft supervisors in different regions see to it that the schools have the facilities reconstry for the organisation of craft work and the secondary for the organisation of craft work and the secondary for the organisation of craft work and the secondary for the organisation of craft work and the secondary and scientifically and scientifically. In addition these supervisors give guidance to the craft teachers, make their experience of different schools available to all the schools in their regions and organise seminars, refresher-courses and in-service training course. Occasionally national seminars are also organised wherein the experiences of the different regions are exchanged.

f) Graft Syllabil

- 46. A perusal of the various syllabil for different levels of the schools of the various States leeves much to be desired. Some of the striking limitations of our existing syllabil are:
 - 1) The absence of a very clear statement of the objectives of craft education in functional terms.
 - 11) Abanca of well worked out functional targets of achievement for the different grades.
 - 111) Lack of clear instructions about the mamber of crafts to be taken up by a school and about the practice of craft work in the schools.
 - iv) Inadequate instructions about the mode of conducting examinations in craft work, the different aspects to be taken into consideration while assessing the craft work

and the weightage to be given to each of those appoins.

g) <u>Uterature on Crafts</u>

- 47. There seems to be a dearth of suitable literature on various crafts for the use of craft teachers in schools:
- 48. There is need for producing suitable literature on various crafts for the children of different levels.

D. RESCHMENDATIONS

These recommendations are meant for consideration of agencies at different levels. They are being given here in the hope that when implemented they will help improve craft education and the utilisation of craft in education in the country.

I. Rot the Central Government

- 1. The place of craft has already been recognised and accepted in all stages of Indian school system but it should be categorically stated. This will make it possible to have some crafts in education upto to the highest stage. The main aims of craft education will be to develop favourable attitudes towards work and technical skill and to provide work experience to the students. It is also necessary that the students should share in the experience of contributing to the productive work of the country. From this point of view eraft may be interpreted in a broad sense as meaning experience of productive work should form a compulsory part of schooling at the elementary and secondary education levels.
- 2. An enquiry should be initiated into the problems of adeption of craft at the waters stages of education. Such an enquiry would have heart the main obstacles and the stage the office I be taken in order to sacother the introduction of eraft or work experience in education at different stages.
- 3. The various objectives to be fulfilled by eraft education should be clearly worked out for the different stages. This can be achieved if a central agency undertakes this task with the tall of people from the different States.
- 4. Some eritoria should be worked out for selection of crafts both for the elementary and secondary schools. These critoria may develop from the immediate national needs. Some critoria are auggested below:-

(a) Significance for the national development

The country is entering into an age of rapid industrilisation and technological progress. Crafts providing experiences which contribute to the achievement of such an objective, may be given preference. This would mean introduction of technical crafts in the s-countries chools. These erafts would help students develop technical skills needed for all kinds of technical jobs in the country. This would be a kind of polytechnication of second-ary education.

à

120

- (b) Importance of graft or work experience for allegation.

 As far as possible work experience should be utilised in the elementary schools for teaching different subjects. Correlation should come natural and should not be forced. The spirit of correlation should be accepted by teachers. This would help in avoiding correlation degenerating into a rigid, closed-in methodology.
- (c) Crafts of local accomic significance.

 In the natural accomic significance.

 which should be properly utilised in schools for providing craft or work experience to students. Local conditions should be taken into consideration while selecting crafts. For the coastal areas in the country fishery may be very useful craft or work experience. Similarly coir work would be a good craft work for Kerala, wool for Keshair, and Bikaner (Rajastha) was.

In this connection the suggestions made by Dr Morgan*

The work experience in rural parts are quite that the Dr. Morgan suggests important vocational subjects like soil improvement and land reclamation, each product technology, mineral the country.

These may be developed in a scientific institutions in the country.

- Syllabil for different crafts should be prepared stating clearly the objectives of craft education in functional terms, giving functional targets of schiovroant for different grades, giving specific and address instructions about the number of crafts to be effered by a school and the number of crafts to be selected by a child, letailed instruction regarding the practice of craft work in the school and the methods of evaluating or assessing craft work. The various States may be involved in the preparation of the syllabil in working out the requirements, in suggesting the utilisation of work experience for education and other related issues. This would help in making craft courses more systematic and scientific.
- 6. The Central Government should work out some schemes of encouraging experimentation in crafts and preparation of literature. This is being already ione unior some schemes of the Ministry of Education. More schemes should be initiated in this direction.

The first collection is formal India, published by

- 7. Series of experaments in developing new crafts should be taken up by a Central agency. The National Institute of Basic Education has done pioneer and significant work in this direction. The Institutes' craft section should be strengthened for enabling it to further its work on the lines.
- R. There is a great need for educating public opinion for wroviding work experience in education. Steps should be taken to effect change in attitude of the public towards crafts. An effective method would be to make the work experiences significant so that these are realised by the students and the parents. Use of mass media should also be made in this direction.
- 2. A scheme of giving grants-in-aid to certain institutions may be worked out. Some good schemes can be worked out to provide international and national cooperation for this work. Grants may be given in terms of craft equipment and tools, which may be referred and and the
- 10. A scheme of setting up library of tools in each district may be worked out by the Central Government and the States may be given grant to undertake such a project. The main aim of the libraries may be to provide all kinds of tools, some of which can be duplicated and many sets may be prepared by the various agencies. This is likely to encourage students of secondary schools and adults in adult classes to use tools for production work and developing craft skills.
- 11. Some central agency like the National Institute of Basic Education may take up the work of setting up good model training programmes by working out such programmes with the help and cooperation of people from the various States. These may be tried out in the different States and the results fed back to the National Institute for making improvements.
- 12. Extension service programmes should be worked out at the National Institute of Basic Education to provide guidance in developing work in crafts in the various training institutions.
- 13. Some pioneer institutions may be set up which are prepared to undertake experimentation in crafts and a central grant may be created for encouraging such work.
- 14. The various efforts being made to provide training facilities in crafts, small-scale industries, rural industries or other work experience should be coordinated. For this purpose a coordination consittee may be set up on which representatives of the various agencies providing such training may work. This may be a permanent body coordinating such efforts and publishing accounts of training programmes.

II. For the State Governments

- 15. Grafts should be made compularry for all the elementary and secondary schools of all kinds. This is already being done but it may be better to set a deadline to do this work. It may, for example, be decided that by the end of the Third Flye-Year Plan no school will be without some craft teaching.
- 16. State Governments (Education Directorates) should take up work of preparing objectives of craft tooching and syllabil for reviews crafts or work experiences at the different lands. This should be immediately attended to. The cooperation of the acceptance and socialized people would be medded in this connection.
- 17. "teps should be taken to encourage experimentamentation in new crafts.
- If is a pity that in most cases the craft teacher should be raised. It is a pity that in most cases the craft teacher finds himself in an inferior position in an institution. There should be difference in the salary and grade given to craft teachers and other ispaces teachers, if they are otherwise equally qualified.
- 19. Stops should be taken to meet the shortage of court teachers in schools by providing sufficient teachers for the different crafts.
- 20. Definite plans should be worked out to encourage better people to come as craft teachers. In this connection come surportions are given below:
 - (a) Graftsman who are good in their work may be selected and encouraged to study and join the teaching line. This can be done by encouraging village panchyates to select youn; craftsman willing to enter teaching line and get education.
 - (b) Competitions may be held in various crafts and prizes may be awarded to teachers who have high standards of craft work. This would encourage teachers to be more efficient.
 - (c) The teachers who set the first five prizes may be well for the teathing in crafts

- at the State expense. This would provide a continuous flow of leadership in craft education.
- (d) Prizes may be awarded to teachers or schools doing experiments in new crafts or preparing new uneful craft equipment. The prize should be such as could be utilized by the individual or the school for continuing work in experimentation in craft or equipment.
- (e) Grudents reading in craft institutions may provide good personnel for craft teaching. For this purpose good students should be selected from such institutions and stipends may be given to them for further education and general pedagogical training.
- 21. Efforts should be made to improve facilities for training of eraft teachers. Some suggestions are given below-
 - (a) The itate may not up some pioneer training institutions having very good facilities for craft training. There institutions may be able to turn out batches of craft educators. It may be useful to attach strong craft training sections to the demost-graduate Basic training colleges and promising trained teachers demosts for an intensive training in selected crafts for a minimum duration of six months.
 - (b) More effective in-service programmes should be organised. There may include part-time training courses and refresher courses in vacation.
 - (c) The various training facilities existing in the State for providing training to craft teachers may be properly utilised. Perhaps this is not being done for want of proper coordination between the various agencies working in the field. Effective steps should be taken we by the State governments to coordinate such efforts being made by the different agencies.
- 22. A formula should be worked out for providing accompliation for graft work in the different schools. There is

- a regrettable shortage of space in most cases. Steps should be taken to provide sufficient accommodation for both teaching of crafts and storing of craft products.
- 23. Many private schools are not able to provide crafts in a proper way for want of financial assistance. Some way should be worked out to give grants to such schools to enable the to provide craft education.
- 24. Before a particular craft is started in some schools provision should be made for proper equipment needed to run the craft. It is a sad experience that in many schools agriculture is started without the schools having any land or irrigation facilities. This is a serious mistake and the State Governments should look into this matter.
- 25. Steps should be taken to prepare lists of mirinum equipment needed for the various crafts. For this purpose suitable formulae may be worked out and adequate equipment should be provided in the schools
- 26. Training institutions should be encouraged to have facilities for repairing tools for the various crafts. Such provision would be helpful for the training institutions to provide experience in repair of tools to the trainees. The training institutions should be able to help the various schools in their areas to have the tools repaired.
- ??. The headmanters of the schools should be given some powers to make purchases which may be urgently required. For this purpose some contingent funds may be provided.
- 28. Proper use should be made of available local talents and resources for giving craft or work experience to students. This should not be perfunctory but should be systematic and worked out in details.
- 29. Raw materials should be provided in time. For this purpose some method should be worked out for the quick supply of raw materials to the schools. One set of practices may not be applicable in all States. The State governments should be able to work out these with the help of the persons concerned.

^{*}Suggestions for minimum equipment and materials for wood work, clay modelling; clay work and pottery; carving; book making; line pictures and fabric printing - are given at the end of each of the chapters VII, VIII, IX, X, XI and XII of "Greattya Crafts in Education" by Seconsird M.Robertson (Rousledge and Regan Paul, London, 1955).

- 30. The productive aspect of craft should not be neglected. Although craft or work experience should not be dominated by economic motives, the productive aspect which is a necessary part of educative experience should not be lost of.
- 31. Some good methods should be worked out for the disposal off-raft products prepared by the students. For this purpose some suggestions are given below:
 - (a) The work should be able to provide necessities in the schools like mid-day meals or uniforms.
 - (b) Some agency at district level should be set that up which may buy all the craft products which are not easily sold and which may take steps to utilise them and sell them for consumption to the various agencies.

III. Supervision

- 32. There should be separate supervisors who may be called craft supervisors or craft organisers to provide guidance to craft teachers and supervise the work of schools and training institutions.
- 33. Proper facilities should be provided for the training of supervisors. For this purpose some pre-service training facilities in the pioneer institutions may be made. Proper in-service facilities may also be provided.

IV. For the Training Institutions

- 34. In order that the pupil-teachers going out of the teacher training institutions are able to teach crafts in schools effectively, it is essential that the teacher-training institutions should give serious attention to the teaching of crafts. Besides proficiency in craft skills the pupil-teachers should be given training in the scientific methods of teaching, crafts.
- 35. The status of craft instructors should-be-well in training institutions leaves much to be desired. The craft instructors should be well integrated with the staff of the training institutions. Sometimes the craft instructors have lower status and this has effect on the craft work being done in the institutions. The training institutes should give the same status to craft instructors as 1s given to the other members of the staff.
- 36. The training institutes should select such crafts for their programmes as are usually taught in the schools of that State. Squetimes the training institutions provide crafts which are not

practiced in the schools. Such a practice has bad effect on the training of teachers and leads to waste of training.

- Training institutions have a definite responsibility in the preparation of literature for the use of school teachers. This responsibility can be discharged if the training institutions work out systematic programmes of preparing guide books, hand books etc., for the topics which need elaboration and discussion. The experiments being done in the training institutions can be written out and made available to the teachers for their use. The training institutions can also prepare simple reading material for boys on technical assects of crafts for which literature usually is not available.
- 38. The craft work should be related to other programmes of the institutions so that it may become more meaningful.
- 39. One of the most reglected aspects of craft education in training institutions is instruction
 about the teaching of arafts. More attention should
 be given to the techniques of teaching crafts so
 that proper skill attitudes, work habits and
 insight are developed. For this purpose the
 training institutions may have to work out their
 assignments and even techniques of instruction.
 This is a new field and training institutions
 may well learn from "Att "Other" a experiences.
 They can hold some common seminars or workshops
 on this and related programmes.
- 40. Weightage should be given to the craft work in the total evaluation of the training programmes. In many institutions craft work is not taken into consideration towards the final evaluation of the pupil-teachers. This creates attitude of memberiousness in the pupil-teachers towards craft work. Since craft forms a part of the training programme, it should be given due place in the programme of the institutions.
- 41. Proper records should be kept for the purpose of evaluation of craft work being done by the pupil-teachers. This would have an added advantage of giving training to the pupil-teachers in the maintenance of records which they are usually required to do when they are employed as regular teachers in the schools.
- 48. Internal assessment should be given more importance

then the external assessment in the craft work. It is better to work out critoria of assessing pupil beachers and fixing turgets for craft work.

IV. For the Schools

- 43. The schools should make sure that proper facilities are provided for teaching and learning of craft work. Nace vary equipment and sufficient raw materials should be provided in time to the teachers and pupils. Huch time is vested in many schools because of delay is providing equipment and raw materials.
- 44. The chools should select c afts which are suitable for their locality or with respect to other criteria that are being considered. The schools should also take into consideration the availablility of the staff for teaching of crafts which are to be started.
- 45. The syllabus may be discussed in the staff meetings and worked out in weekly divisions. The basic schools which we following correlated teaching methods should also work out the correlated units. This should be done in a broad way in the beginning of the session and may be revised at the end of each month.
- 46. Systematic work should be done in laying down thorgeth for craft work in the different grades. Sufficient time should be provided for the craft work.
- 47. The teacher should clearly know the why and wherefore of crift while teaching the pupils in the
 different states. In most cases the teachers tend
 to teach mechanically and are satisfied with rerely
 giving instruction in craft skills. Since the
 main aim of education is to provide experiences
 to children for their development, craft should
 also sin at contributing to this kind of experience.
 This is possible if the craft teachers are careful
- This is possible if the craft teachers are careful and take pains in knowing the educational and accentific aspects of the crafts.
- 49. Pupils should be encouraged to participate in all aspects of work in connection with craft teaching. They may, for example, help the teachers in organising the materials in the class, in setting up craft workshops, cleaning the class, room, doing self-evaluation, completing record forms and keeping technical drawings and took boxes in order.

- 49. The schools should work out their records
 to be kept by the miplis and the teachers.
 The records should be simple and should not take
 such time for their regular maintenance. These
 records should be able to help the teachers in
 evaluating the progress of the pupils.
- 60. One way of assessing the progress of pupils is through developing a reliable way of rating the number. To chers can get some practice in vating if they define the various aspects that we to be rated and define the various points of the rating scale in functional terms.
- 51. Due importance should be given to self-evaluation whereby the pupils rate their own performance and are able to find in what aspects they need more improvement.
- 57. Craft should be considered for promotion like other subjects. In some States, there is no examination in craft work and in some other States even if the examination is held the marks are not taken into consideration for the promotion of the pupils. This tends to give less importance to craft in relation to other subjects. Craft should occupy an important place and should be estimally taken both by the teachers and the pupils.

BILLLEARLEX

CHAPTE IN PAGE TION

- 1. Ballard, Phillip Boswood. Hond that the opic tt mil
- 2 Bhatia, H.K. <u>Craft in oducation</u>. Filani, The Author, 1944. 222p.
- kobertson, beonald Mairi. Creative crafts in education. London, houtledge & no months 1950. 2000.
 - Robertson, Jeonald Mairi. Craft and contemporary culture. London, George G. Harra, XI', Univers, 1961. 158p. illus.
- D UNC. Co. The teaching of harderstrain energy by chooks, Paris, voices, Typic 101 p. (affreenth in the time).

 Conference on Public Education).

LEBINING IN CEREL?

- 6. Blass. From Deposits of a College State of College State of the Colle
- 7. Central Training Institute for Instructors, Romin Bulletin 107 Sensit Limited Sensity William Arectarate General of Confederation and Contral 1995. 10p.
- 8. Orifining Training School : Tvillabur of Training Monmanuscript Training Towns John, Jir not wait Conoral of whether not and Imployment, Juniotry of Labour and Employment, 1960. 62p.
- Training part 1. indore er-work. The intitutional decima research, make decima decima and research decimal dec
- io. Hundicrafts Teachers' Training College. Bombay.
 - (il dyllabus for the Artisam Courses in Handlorafts.
 - (ii) Syllabus for Craft Teachers' Certificate Course
 - (iii) Syllahus for Primary Teachers' Course (Crafts).
 - Himachal Fradesh. Education Department. Basic Training Source Syllabus and Examination Rules. Solan, 16 p. (Cyclostyled)

TRAINING IN CRAFTS

- 9. Khadi and Village Industries Commission. Bombay. Training in Khadi and Village Industries. (An informative hand-book). 4th ed. Bombay The Commission, 1961. 68p.
- 3. Proceedings of the State Seminar on Primary Education.
 (42-13-14 October, 1961) Patna, Bihar State Education
 Department. 36p (Hingi, memographed).

REPORTS

(a) Central

- Abott, A. Report on vocational education in India. (Delhi, the Punjab and the United Provinces) ...with a section on General education and administration by S.H. Wood. Bolhi, Monigor of Publications, 1937. 138p.
- All India Council for Technical Education. Fazcilities
 for Technical Education in India: Preliminary report on
 the Survey of Technical Institutions in India
 conducted by the All India Council for Technical Education Pts. 1-4. 1948-1950).
- G. India. Bureau of Education. Past-war educational developacut in India: Report of the Central Advisory Board of Education, Jamuary, 1944. Delhi, Manager of Publications, 1947.
- India. Bureau of Education. Selections from educational records. Pt. 1. 1781-1839, H. Shurp. Calcutta, Superintendent Govt. Printing, 1920. 225p.
- India. Bureau of Education. Progress of education in India. 1887-88 to 1891-92. Second quinquennial roview. by A.M. Nesh. Calcutta, Superintendent of Government Printing, 1892. 376p.
- India. Bureau of Education. Progress of education in India. 1892-93 to 1896-97. Third quinquennial review. by J.S. Cotton. presented to both houses of Parliament by Command of Her Mejesty. London, H.M. Stationery Office, 1872 1898. 425p. Maps, tobles.
- India. Bureau of Education. <u>Progress of education in India.</u>
 1897-98 1901-02. <u>By R. Nathan. Vol. 2.</u> Calcutta,
 Superintendent of Government Printing, 1904. 168 p.
 Maps, Statistical tables, time tables.
- India. Bureath of Education. Progress of education in India.

 1902-1907. Fifth quinquennial review. by H. W. Orange.

 Vol. 1. Calcutta, Superintendent, Government Printing,

 1909, 338, xi p.

- India. Bureau of Education. <u>Progress of education in India</u>. 1902-1907, by <u>H.W. Orange</u> Vol. 2. Calcutta, Superintendent Govt. Printing, 1909. 168 p. maps, statistical tables.
- India. Bureau of Education. <u>Progress of education in</u> India. 1907-1912, <u>by H. Sharp. Vol. 1. Calcutta,</u> Superintendent, Government Printing, 1914. 284, xxxii p.
- India. Bureau of Education. Progress of education in India. 1907-1912, by Sixth Guinggennial review. by H. Sharp. Vol. 2. Calcutta, Superintendent, Govt. Printing, 1914. 292 p.
- India. Bureau of Education. <u>Progress of education in</u> India. 1912-1917, by H. Sharp. Seventh quinquennial review. Vol. 1. Calcutta, Superintendent Govt. Printing, 1918, 215, iv p. 22 plates.
- India. Bureau of Education. Progress of education in India. 1932-1937. by John Sargent. Eleventh cuinquennial review. Vol.2. Bolhi, Manager of Fublications, 1940. 285 p.
- India. Bureau of Education. Progress of education in India. 1912-1917. Seventh quinquennial review. by H. Sharp. Vol. 2. Appendices and table s. Calcutta, Superintendent Govt. Printing, 190. 200 p.
- India. Bureau of Education. <u>Frogress of education in India</u>, 1917-1922. <u>By J.A. Richey. Eighth quinquantal review.</u> Vol. 1. Calcutta, Superintendent Govt. Printing, 1923. 189 p.
- India. Bureau of Education. <u>Progress of education in</u>
 India. 1922-27, <u>by R. Littlehailes. Winth quinquennial</u>
 review. <u>Vol. 1.</u> Calcutta, Govt. of India, Central
 Publication Branch, 1929. 235 p.
- India. Bureau of Education. Progress of education in India. 1927-32, by Sir George Anderson. Tenth quinquennial review. Vol. 1. Delhi, Manager of Publications, 1934, 273 p.
- India. Ministry of Education. Progress of educationin India. 1937-1947. Becennial review. Vol. 1. With a foreword and introductory survey by Sir John Sargent. Delhi, The Manager of Publications, 1948.
- India. Ministry of Education. <u>Progress of education in India</u>. 1937-1947. <u>Decennial review</u>. Vol.2. (<u>Statistical tables</u>). <u>Delhi</u>, The Manager of Publications, (1948), 397 p.
- India. Ministry of Education. Progress of education in

- India. Ministry of Education. <u>Progress of education in India</u>. 1947-52. <u>Quinquennial review with an introductory by Hamsyun Kabir</u>. Delhi, The Manager of Fublications, 1953. 274 p.
- India. Central Advisory Board of Education. <u>Proceedings</u> of annual meetings.
- India. Central Advisory Board of Education. Silver Jubilee Souvenir. (1935-1960) New Delhi, Ministry of Education, 1960, 491 p.
- India. Indian Education Commission 1882. Report of the Indian Education Commission appointed by the resolution of the Covt. of India, acted 3rd February, 1882. Camcuttz, Superintendent of Government Printing, 1883. 639, 1 xxvii p. W.W. Hunter, President of the Commission.
- India. Ministry of Education. <u>Draft Third Five Year Plan</u>
 <u>for Education</u>. New Delhi, The Ministry, 1960.
 (memeographed).
- India. Ministry of Education. Education in India.

 Vol. 1. Report. New Delhi, the Ministry. Published annually.
- India. Ministry of Education. Education in India.

 Vol. 2. All India Tables and Appendices. New Delhi,
 The Ministry. Fublished annually.
- India. Ministry of Education & S.R. Report of the National Seminar on the Role of Arts and Crafts in Education and Community Development held at Kalakshatra. Advar. Madras. 7th to 21st, March, 1957. Felh!, Manager of Publications, 1957. 24 p.
- Indian Statutory Commission. Interim report of the Indian Statutory Commission (Review of growth of education in British India by the Auxiliary Committee appointed by the Commission). September, 1929. Presented to Porliament by Command of his Majesty, September, 1929. Calcutta, Govt. of India, Central Publication Branch, 1929, 401 p. (Chairman Johan Simon).

REPORTS

States

2. Andhra Pradesh. Education Department. Report of the Special Committee for Basic Education. Andhra Pradesh. 1961. Hydarabad, 1961.

Bihar Basic Education Board. Basic Education in Bihar.1. Origin and Progress. Patna, The Board, 1951.

Bihar. Education Department. The Bihar Primary, Middle, Basic and Social Education Enquiry Committee. Report (February, 1953 - December, 1955). Patna. The Superintendent Secretariat Bress, 1956.

Madras. Education Department. Committee on Elementary Education in Madras. Report Madras, Director of Information and Publicity, Government of Madras, 1958. (Chairman, Prof.R.V. Parulakar).

Madras. Education Department. Report of the C. mmittee appointed to study Basic Education in the Madras State and to offer suggestions for its expansion and improvement, January 1952. Madras, Superintendent Government Press, 1952.

Madras. Education Department. Report on public instruction in the Madras State (Presidency upto 1947-48). Madras. Superintendent Government Press. Published annually.

Mysore. Education Department. Report on public instruction in Mysore for the year 19. Bangalore, Director of Printing, Stationery and Publications, Published annually.

Uttar Pradesh. Education Department. Uttar Pradesh Man Rumiyadi Shiksha Ki Pragati. 1959 (Hindi).

SYLLABI - SMCOMDARY SCHOOLS

- 7. BOFFAY : Secondary School Certificate Examination Board; Subjects and Papers for the S.S.C.Examination; Poona; April, 1960.
- 7. JAMMU AND: Sullabuses and courses of studies for the Matri-culation examination 1959; The University of Jammu and Kashmir, Srinagar.
- 6. KERALA : Syllabus for Standard XI under elective system; Government of Kerala, Education Department, 1958.
- 4. MADHYA : (1) Prospectus for 1962; High School and Inter-PRADESH mediate examination; Board of Secondary Education, Madhya Pradesh, Sub-Office, Gwalior;
 - (ii) Prospectus for the Multipurpose Higher Secondary and Higher Secondary Schools for the Higher Secondary School Certificate Examination. A course, 1962; Mahakoshal Board of Secondary Education, Madhya Pradesh, Jabalpur; 1959.
- ### Revised syllabuses for Secondary and Higher Secondary Course; Supplement to Part I-B of the Fort St.George Gazette; 1958.
- 6. MYSORE : Draft Curriculum for Higher Secondary and Multipurpose High School; Department of Education; Government of Mysore; 1958.
- 7. ORISSA : (i) Courses of Studies for the High School Certificate Examination, 1961, Board of Secondary Education, Orissa;
 - (ii) Courses of Studies for the Higher Secondary School Certificate Examination, 1962.
- 8. PUNJAB: : Regulations, outlines of test and syllabuses in the various subjects for the proposed higher secondary Scheme as recommended by the School Board etc.; Punjab University, Chandigarh; May 1957.
- 8. RAJASTHAN: (1) Multipurpose and Higher Secondary School Courses of Studies; Optional group 'crafts'.
 - (ii) Multipurpose and Higher Secondary School.
 Courses of Studies; @tm Optional Group 'technical'
 - (111) Prospectus of the Higher Secondary Examination of the Board of Secondary Education, Rajasthan for 1962; 1959.

16. UTTAR PRADESH Syllabus of the Board of High School and Intermediate Education, U.P., for 1961, for the Migh School, Intermediate examination, High School Technical examination and the Intermediate Technical Examination.

14. VEST BENGAL

- : (i) Curriculum and syllabuses for school Final examination, 1959: Board of Secondary Education, Ment Bengal.
 - (ii) Jurriculum and syllabuses for the Higher Secondary Course; Board of Secondary Education, West Bengal, Calcutta.
- 12. DELHI
- (1) Prospectus: Higher Secondary Examination: 1958; Three-year course of the Board of Higher Secondary Education, Delhi.
- (ii) Prospectus of the Higher Secondary Technical Evamination, 1959, (Three-year course) of the Board of Higher Secondary Education, Delhi.
- (iii) Prospectus for the High School Examination of The Rord of Higher Secondary Education, Delhi, for 1959.

ARLINA

(i) Basic School Curriculum & its objectives. (11) Lylledus of courses for the lower Secondary stage of Instruction (Telengena); classes VI, VII, VIII; Govt. of Andhra Fradesh, Board of Secondary Edgartion; 1959.

arres with A

Curriculam for Frimery, Middle Schools, Middle Madretsus, Alocle English & High Madrassas, benskrit Middle Schools and High English Schools for boys & girla: Shillong: Aseas Govt. Press: 1952.

BIHAR

Cyllabus for Elementary Schools in Bihur for clustes I to VII of Primary, Middle, Banic & High Schools: Secretarist Press. Bihar, Fathal 1959.

BUMBALE (orstwhile) (1) havised syllabau for standards I-VIII (Prinsry. Basic and Second ry Schools; Poone; 1956.

(11) Revised syllabus in Basiccrefts & community living; (Sup lement to the revised syllabus for standards I-VII); Frimary, Basic & Secondary School; Govt. of Bombay; 1957.

Middle School Syllabus of Studies; classes (iii) V-VIII; 1959 edition; Vidarbha Bourd of Seconcery Education; Bombay State, Esgpur. 1959.

JAHHU & KISHMIN

Syllabit for classes I to VIII: Research & Publication Department, Directorate of Education; Jamus & Kashmir.

KLINILA

Syllabil for Primary clusees (standards I to VIII): Govt. of Kerwle: Education Department: 1958.

M. J. Y. Ph. M ा प्राचिमक तथा की साम्प्रामित शालायों मा होते। कि किसी प्रति

भारत क्रेस भाग पर भाग में प्रतक

11 1250 THIS INTO LITTE (1) 1,

M. Dell. H

Revised syllabus for standards I to VII; Integrated Elementary Course; Govt. of Madras. 1959.

MATOUR

(i) Primary School curriculum in atandard I & II; Govt. of Mysore. Dept. of Public Instruction. 1959.

(11) Primary School Curriculum, standards III & IV; Govt. of Nysore, Dept. of Jubile Instruction, 12 (111) The Revised Frimary School Syllapur for standards V, VI & VII; 1950.

Oblight: (1) Modified syllabum for primary schoo; Approved by Govt. of Origan in the Education Department, 1959.

(ii) Courses of Study for classes VI & VII; Board of Second-ry Eduction. Grissa.

PUBJAB : Detailed syllabit of different subjects for the junior Basic, Frimary and Middle departments of recognised schools for boys & girls in the hunjab (India): Approved by the Punjab Govt., Chandigarb: 1956.

UTTAR : (1) TO SALE TO STATE FOR SOME THAT DIST.

STATE OF STATE O

(ii) Curriculum for Juni r High School classes VI. VII and VIII for Boys & Girls; U.P.; Fourth Edition, 1958).

WELL HELL BENEWL, Educ t on Directorate.

Delhi Adm mistration; Vol. 1.; Primary classes I & II; 1960.

(ii) Syllabii à courses for recegnised schools in Delhi Administration; Vol. II; Middle classes VI à VII: 1960.

अविकाद किंद्रें का पार्टी का पार्टी के किंद्रें के स्थाप के स्था के स्थाप के स्थाप के स्थाप के स्थाप के स्थाप के स्थाप के स्थाप

" J.

BOOKS

General

Bhagwan Dayal. The development of modern Indian education. Bombay, Orient Longman, 1955.

Bent, Rudyard and Kronenberg, Henry H. Principles of Secondary Education. 2nd Ed. New York, McGraw Hill, 1949.

Hans, Nicholas. Comparative Education - A Study of Educational Factors and Traditions. London, Routledge and Kegan Paul, 1955.

Mochlman, Arthur Henry and Roucket, Joseph S. eds. Comparative Education. New York, Dryden Press, 1957.

Nurullah, Syed and Naik, J.P. A history of education in India (During the British period). Bombay, Mac-Millan, 1951.

Venable, Tom C. Patterns in accondary school curriculum. New York, Harper and Bros. 1958.

U.S.S.R.

Hechinger, Fred M. The big real school house. New York, Doubleday and Co., 1959.

Kline, George L. ed. Soviet education. London, Routledge and Kegan Paul, 1967.

Korolev, F. Education in the U.S.S.R. New Delhi, Soviet Land Booklets, 1958. 96 p.

Levin, Deana. Soviet Education -to-day. New York, John De Graff, 1959. 170p.

Meak, Dorothea L. ed. Soviet youth: Some achievements and problems. Excerpts from the Soviet Press. London, Routledge and Regan Paul, 1957.

Soviet Education. (Selected articles from Soviet Education Journal in English translation). New York, International Arts and Sciences Press. Monthly 1968 - . V.1.1958-59, V.2.1959-60. V.3.

U.S.A.

Georgia. Education Department. General industrial arts: a course of study for grades 7.8. or 9. Atlanta, State Department of Education, Division of Vocational Education, Office of Industrial Arts Education, 1960 (Memeographed).

Georgia. Education Department. Industrial arts for Georgia schools: A handbook for teachers and school administrators. Anlanta, State Department of Education, Division of Vocational Education, 1958.

Idaho State Board of Education. Industrial arts study guide for grades 7-12. 1955 (Memeographed).

Lindstrom, James E. <u>Syllabi for industrial arts.</u> Bridgeport, Connecticut, Bridgeport Public Secondary Schools, 1958, (Memeographed).

Minnesota: Department of Education. A guide for instruction in industrial arts. Secondary Schools. Grades 7-12. Pt.One. Administration Curriculum Bulletin No.13. 1950.

New Orleans. Public Schools Division of Instruction.

A program of industrial arts for courses one and two in the junior High school. Curriculum Bulletin No.7. 1956. (Memeographed).

New York City. Board of Education. <u>Curriculum development in the elementary schools</u>. (Curriculum Bulletin No.I). New York, The Board, 1955.

Parkhurst, Earl D. and Miller, Walter H. <u>Vocational</u> and industrial arts. <u>Practical electronics</u>. Berkeley, Calif. Berkeley United School District, 1954. (Memoographed).

Shiber, H.L. and others. <u>Industrial arts: A guide for teachers. grades seven and eight.</u> Board of School Commissioners, Indianapolis Public Schools, 1954 (Memeographed).

Throckmorton, Adel F. A curriculum guide for the elementary schools of Kansas. Topeka, Kansas, State Superintendent of Public Instruction, 1958.

Wilber, Gordon O. Industrial arts in general education. 2nd Ed. Scranton, Penn., International Text-book Company, 1954.

Wisconsin. Cooperative Educational Planning Program. Resource units for industrial arts in Wisconsin Schools. 1951.

Wisconsin. Cooperative Educational Planning Program. Philosophy and objectives for industrial arts in the Wisconsin Schools. 1949.

U.K.

Blackford, G. A history of handicraft teaching. London, Christophers, 1961. 165p.

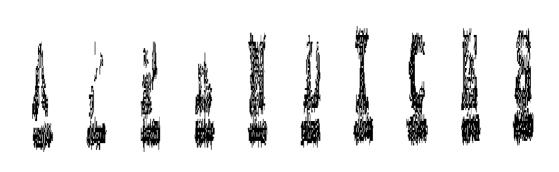
- 376 1. <u>Art and Craft Education</u>

 Evans Brow. Ltd., Montegue House,
 Ruseel Square, London,
 Bi-monthly; 17 sh. 5 d.
- 377 2. Craft Horizons Inc., Ken York, U. . A.
- 378

 Mather Bros. (Preston) Ltd.
 192. Stonelov Road.
 Holmsdale, Bronfield
 Near Shiffield. England.
 (Warterly) 6 sh.
- 379 4. Protice Education and

23. Brinkburn Drive.
Darlington Co.
Durhen. Srot Britein.
Cuerterly 12 sh. 8 d.

- 180 5. New Era in Home and Johoel
 - 1. Park Crescent, London, W, 1. Honthly; 1 &



Appendix: II

LU . II ME IN CH THE EN LITTER OF CHAPT TENCHERO

1.	***	 * * ·		. <u> </u>
	h , t .		1,5 % (

- 2. (a) Is it a high School/higher secondary school/ Multipurpose school? (acore out the alternatives which do not apply).
 - (b) Is it a boys/girls/co-educational institution?
- j. In which classes are coufts tought as a part of the curriculum? (Flease place a tick mark against the appropriate classes)

- 4. Is craft a compulsory/optional part of the curriculum?
- 5. What are the chafts provided in the school?

5. (a) are the crafts provided in the school linked with those practised in the surrounding area?

6.	what are the objectives in introducing craft sourcetion in the curriculum?
ч	(Please place a tick mark against the appropriate statement (s).)
	(a) Contributes to the leisure time
	activities of pupils (b) provides vocational outlet to
	pupils (c) enables them to gain manipulative
	skills (d) inculcates dignity of labour
	(e) emplores their aptitudes and
	interests (f) makes them appreciative of craft
	products (g) gives them confidence to use inex-
	pensive and locally available
	material (h) offers opportunity for guided
	exploration and experimentation in practical situations
	(i) provides specialised experiences
	to pupils with special interests, skills and telents to further
	develop these abilities
	(j) makes them better householders in the matter of minor household
	repairs
7.	To what extent are these purposes fulfilled in the
	actual teaching of the crafts in your school?
8.	How many hours a week are devoted to craft teaching?
9.	Are the class periods of sufficient length?
-	Yes/No
	a way and
	The period is of
	PHYSICAL FACILITIES
10.	What is the average size of each craft class?
	Is it commensurate with the nature of work to be done?

12. Are the craft classes conducted in a room set apart for the purpose?

Yes/No

13. Does the room provide adequate space?

Yes/No

14. Is the room well-lighted and otherwise suitable?

Yes/No

15. Are adequate storage facilities available for pupils' handiwork, general material and supplies?

Yes/No

16. Are adequate working facilities available in the form of

Work benches	Yes/No
Tables	Yes/No
Easelo	Yes/No
Tools	Yes/No
Show-cases	Yes/No
Display bosses	Yes/No
Raw Material	Yes/No

17. Are materials and equipment efficiently used?

Yes/No

18. Are raw-materials made available to pupils in time?

Yes/No

- 19. Do students work individually/ingroups?
- 20. Is each student provided with his own set of tools? If not, with how many has he to share 1t?
- 21. What percentage of students, if any, possess their own tools at home?
- 22. Is the workshop kept open for pupils outside regular hours?
 If so, for how long?

25. Is the workshop

23.	what percentage of students use the workshop outside the course of studies?
24.	what percentage of students pursue the craft at home for pleasure?
25.	On what reason is the students' choice of craft based? (Place a tick mark egainst the appropriate column).
	(1) the choice provided in the school (2) his own sptitude (3) hereditary craft in the family (4) parents' choice (5) teachers' choice (6) accidental
26.	How many crafts can astudent offer at one time?
27.	For how many years does he study the craft compulsorily?
	No. of years From class
28.	Is a change of craft possible during the secondary school course?
	Yes/No
	If so, ut what stage?
	STAFF
29.	How many teachers are employed in the school for each oraft?
	Craft No. of teachers
30.	Is the staff adequate for each of the crafts?
	Y es/No
31.	Have the teachers received institutional training in crafts?
	Yes/No

32.	What is the king of cres	qualific ft teache	ation pro r?	soribed b	y the St	ate for e	a ch
	Designation	taught	Education qualifica tions	nal Profe quali ions	essional ficat-	Pedagogi qualific tions	
	1. 2. 3. 4. 5. 6. 7.						
33.	What are the	e instituedagogic	tions in	the State	that pr	ovide	
	1. 2. 3. 4. 5. 6.						
34.	Do you expe					tea dier	*
	•		Yes/No				
35.	Do you expe who are ped	rience di «gogical]	fficulty ly traine Yes/No	in secur d?	ing craft	teacher	
36.	Are untrain	ed and w	qualifie Yes/No	d artisan	s employe	d in the	s chod.
37.	What are th	e scales					
	Designation	k	Cra	ft taught	See	le of pay	•
	2.	ik dan siya da kan siya ya sida gan kan ya da qara ka sababili Mar qara kan siya da sababili da sabab				rian garintatas pietas esta esta esta esta esta esta esta	n kanpulisium Historium
	3 · · · · · · · · · · · · · · · · · · ·						
			And produce the second			ng katapang salipang an katapang kapana katapang katapang katapang katapang katapang katapang katapang katapan An katapang salipang katapang	
							

- 38. Are craft teachers acquainted with the modern practices in teaching crafts - or do they follow the traditional methods?
- 39. Bo the craft tenchers perticipate in community craft activities?

CURRI CULUM

40. Boes the content of the craft curriculum include

(a)	munipulative skill	Yes/No
(b)	a study of the economics of	Yes/No
	the craft	
(c)	the scientific basis of the craft the application of the craft in	Yes/No
(a)	the application of the craft in	Yes/No
	deily life	

41. Is the curriculum integrated with

(b)	home and community experience other subject areas in the	Yes/No Yes/No
	programme of studies co-curricular activities	Yes/No

42. Does it stress the creative aspects of crafts

Yes/No

43. Does it stimulate interest in the pupil and prepare him for craft pursuits beyond the secondary school?

Yes/No

INSTRUCTION

- 44. Are field trips conducted to places of interst from the standpoint of craft education? Yam/No
- 45. What special steps are taken to promote craft work?

INSTRUCTIONAL MATERIALS

- 46. What instructional materials are provided for craft instruction under the following categories? (Please attach separate lists of space is not adequate)

 - (a) Text books (b) Reference material
 - (c) Periodicals (d) Teachers' file of meterial
 - (e) Pupils' collection of craft designs and materials

 - (g) Amy other

EVALUATION

47.	How is pupil progress evoluted? (Place a tick mark against the appropriate answer).
	By maintaining a record of pupil progress
	By evaluating creative ability
	By evaluating technical competence
	By evaluating quantitative turn-over
48.	Is cruft work assessed by internal and /or external assessment?
49.	Are examinations held in the craft? If so, how often are they held in the year?
50.	what is the composition of each examination?
	No. of papers Duration Marks
	Theory Practical
	Viva Voce
51.	Is a minimum number of marks prescribed Yes/No for a pass?
	If so, what is it?
52.	Is the pupils' achievement in crafts taken into consideration in deciding his total progress and his promotion to the next class?
53.	What is the size of funds available for craft programme each year?
	Recurring
	Non-recurring
S.A	Is the amount adequate?
	*
25.	How are the articles produced by pupils disposed of?

57. What are your suggestions for bringing about improvement in craft Adstruction?

56. Please mention any other special features about craft instruction in your school.

- 58. Please attach the following statements.
 - (1) The number of students atudying each craft from Standard IX to XI, or where the higher secondary school is from Standard VIII, from Standard VIII to Standard XI.
 - (2) Statement showing the position of staff for craft insturction in the following form.

Name of Designation Craft of teucher	Educational and profe- ssional qualifications	Whether qualified according to prescribed regulations.
---	--	--

(3) List of equipment provided in the school for each craft.

Signature of Headmaster

Place

Date

APPENDIX III*

The following table indicates the various crafts aught to boys and to girls in each countries.

Country	${f BOYS}$	CATES
Ar gentina	Bookbinding, Nea Woodwork. Sci	dlework, Domestic ence, Bookbinding.
Australia	Woodwork, Metal- work, Farm Mecha- nics.	Needlework
Austria	Stancilling, Lino- cutting, Cardboard work, Bookbinding, Modelling, Woodwork, Metalwork, Garden- ing.	Needlevork
Belgium	Cardboard work, Modelling in the Round, Woodwork, Metal work.	As for boys
Burna	Woodwork, Metal- work, Cane and Bamboo work.	Needlework, Weaving, Pottery.
Canada		
Alberta	Leather Work, Pottery,State Art Art Metalwork, Art Woodwork.	al 4
British Columbia	Woodwork, Metalwork, Modeling (clay and scap), Photography, Costume and Poster Design.	188 -
Man1 toba	Cardboard Work, Bookbinding, Lea- ther Work, Idno- cutting, Woodwork, Metalwork.	Needlework, Weaving.
	we will not seen that the seen of the seen	(Contd.)

From: "The Teaching of Handicrafts in Secondary Schools"

From: "The Teaching of Handicrafts in Secondary Schools"

From: "The Teaching of Handicrafts in Secondary Schools"

Country

Boys

Girls

Canada:

Nova Scotia Woodwork, Metalwork.

Ontario

Modelling, Wood & Soap-carving, Stage Certain Art Courses Art, Textile Print- as for boys; Meedleing, Pottery, Weav-ing, Carpet Making, Bookbinding, Metal-

work.

work.

Saskatchewan

Hobbies: Leather work, Embroidery, Shell Work.

Ceylon

Woodwork (and occasionally Basketry, Leather Work, Metal

Weaving

work).

Chile

Cardboard Work, Bookbinding, Woodwork.

Needlework

Czechoslovakia

Gardening, Woodwork, As for boys; Needle-Models, Car-driving, work, Domestic Science.

Cooking, Tailoring (in 'work groups')

Dermark

Woodwork (Slojd)

Beuador

Egypt

Bookbinding, Geometrical and Geographical Modelling,

Domestic Science

Work on natural resources.

Fretwork, Metalwork, Modelling, Pottery,

Bookbinding, Leather Needlework

Work, Weaving, Carpet

Malding.

Finland

Cardboard Work, Woodwork (incl.

Woodcarving), Metal Needlework

work, Making Model Aeroplanes, Physics Apparatus, etc.

(Contd.)

Country	. See that the total tend total tend total tend total tend tend tend tend tend tend tend tend	CATIS
France	Woodwork, Metal-	Needlework, Domes- tic Science, Child Care.
Holland	Cardboard Work, Modelling, Wood- work.	As for boys
Honduras	Modelling, Weaving, Basketry, Wood- work, Metalwork, Bookbinding, Soap- making, Brush- making, Pottery, Tanning, Preserving.	Needlework, Tailor- ing, Millinery, Flowermaking.
Indian		
W. Bengal	Cardboard Work, Modelling, Wood- work.	Needlework
Madraz	Gardening, Agri- culture, Woodwork, Weaving.	Domestic Science
Central Provinces & Berar	Modelling, Card- board Work, Basketr; Weaving, Wood- work, Metalwork.	Meedléwork, y, Domestic Science.
Ireland	Woodwork, Tree Study.	upa
Israel	Cardboard Work, Woodwork, Metal- work, Electricity.	Needlework, Weaving, Domestic Science.
Korea	Woodwork, Bamboo Work, Metalwork, Machinery, Use of Plastor and Cement	As for boys
Lebanon	Copper Work, Ele- ctrical Installa- tion.	Needlework.
Luxemburg	Science Apparatus Classrocm Decera- tion.	Needlework, Domestic Science, Child Care.
		description of

(Contd.)

dountry	Boys	Girls
Monaco	Cardboard Work, Woodwork, Metal-work.	Needlework, Domestic Science, Child Care.
New Zealand	Woodwork, Metal- work, Leather Work, Bookbinding, Weav- ing, Carpet Making, Block Printing, Pottery.	As for boys
Norway	Cardboard Work, Woodwork, Metalwork.	Needlework
Panama	Cardboard Work, Modelling, Woodwork, Metalwork.	Domestic Science
Persia	400	Needlework, Domestic Science.
Portugal	Modelling, Card- board Work, Felt- work, Woodwork, Linocutting, Models.	As for boys (except Models)
Salvador	Apparatus, Card- board Work, Book- binding, Woodwork, Metalwork.	As for boys
Sweden	Woodwork, Metal- work, Bookbinding.	Needlework
Switzerland:		
Basel city	No fixed syllabus	Needlework
Geneva	Cardwoard Work, Woodwork, Metal- work.	Needlework, Domestic Science.
Neuchatel	Woodwork (incl. Woodgarving), Metalwork.	Cardboard Work, Raffia Work, Basketry, Leather Work.
Zurich	Modelling, Wood- work (incl. Wood- carving), Metal- work.	Needle work
Syria	-	Needlawork, Domestic Science.

(Contd.)

Country Boys Girls Bamboo Work, Thai land Needlework, Work with Banana Leaves, Modelling, Woodwork, Gardening. Candle-making. Cardboard Work, Needlework, Domestic Turkey Woodwork, Metai-Science, Child Care. work, Modelling, Heaving. Union of South Africa: Needlework Cape Pro-Woodwork, Metalvince. work Woodwork, Metal-work, Bookbinding, Natal Domestic Science spinning, Weaving, Modelling, Linocutting. Wood work Needlework Orange Free State Needlework, Domestic Woodwork, Metal-Transvaal Science. work. United Kingdom: England Woodwork, Metal-As for boys (except Woodwork and Metal-& Wales work, Bookbinding, work); Needlework. Block Printing. Textile Printing, Pottery, Plastics.

Appendix: TV.

LIGT OF ELEMENTARY SCHOOL SYLLABII STUDIED

ANDHRA

- (1) Basic schools curriculum and its objectives;
- (11) Syllabus of courses for the lower secondary stage of instudtion (Telangana); classes VI, VII, VIII, Government of Andhra Pradesh, Board of Secondary Education, 1959.

ASSAM

Curriculum for primary, middle schools, middle madrassas, middle English and High madrassas, Sanskrit middle schools and high English Schools for boys and girls: Shillong, Assam Government Press, 1952.

Bihar

Syllabus for elementary schools in Bihar for classes I to VII of primary, middle, Basic and high schools; Secretariat Press, Bihar, Patna; 1959.

BONBAY (Erstwhile)

- (i) Revised syllabus for standards I-VII (Primary, Busic and secondary schools); Poona: 1956.
- (ii) hevised syllabus in Basic crafts and community living; (supplement to the revised syllabus for standards I-VII); primary, basic and secondary school; government of Bombay: 1957.
- (111) Middle schools syllabus of studies; dasses V-VIII; 1959 edition; Vidarbha Board of Secondary Education, Bombay State, Nagpur, 1959.

JAHMU AND KASHMIR

Syllabii for classes I to VIII; Research and Publication Department; Directorate of Education; Jammu and Kashmir.

KERALA

Syllabii for primary classes (standard I to VIII); Government of Kerala; Education Department; 1958.

MADRAS

Revised syllabuses for standards I to VII; Integrated elementary courses; Government of Madras, 1959.

MY SO RE

- (i) Primary school curriculum stamards I and II; Government of Mysore, Department of Public Instruction; 1959.
- (ii) Primary school curriculum; standards III and IV, Government of Mysore, Department of Public Instruction; 1959.
- (iii) The nevised Primary School Syllabus for Standards V, VI and VII; 1960.

ORISSA:

- (i) Modified syllabus for primary school; approved by Government of Orissa in the Education Department; 1952.
- (ii) Courses of study for classes VI and VII: Board of Elementary Education, Orissa.

<u>PUNJAB</u>

Detailed syllabii of different subjects for the junior Basie, primary and middle departments of recognised schools for boys and girls in the Punjab (India); Approved by the Punjab Government, Chandigarh; 1956.

RAJASTHAM () शिला काक : काला परे प्रत्या : राजानाक विलाविकाल : १२ द्वाट - प्रत () शिला काक : काला धरे द्वाट : राजानाक विलाविकाल : प्रदेश - प्रत ()) शिला काक : काला धरे ट्वाट : राजानाक विलाविकाल : प्रदेश - प्रत

(ii) Curriculum for junior high school classes VI, VII and VIII for boys and girls; U.P., 4th Edition, 1958.

VEST BE IGAL

पार्थिक विद्यांलम पार्क्यानिह दुर्जियादी पूर्वी क्रांग

West Bengal, Education Directorate.

DEIHI

Osyllabii and courses for Recognised schools in Delhi Adm nistration; Vol. Widdle classes VI to MIN 1960. Primary classes I to I 1960

AUNT CHAT - THE DES H

(ii) syllabii and courses for Recognized schools in Dethi Adr Vol. II; middle Classes II - IIII; 1960

Humachal Prodest

- (1) प्रामिक कराने जा पाटण व्यक्त है क्षित्रक के विश्व के विश्व के
 - (ii) क्रिक्सि क्या का क्या का पाटमात्रा हिमा चल स्टिम सिम्म ?

APPENDIX . Y.

CHOOM A MANAGE AND THE PROPERTY OF THE STATE OF THE STATE

ANDHRA

Two syllabit have been studied in respect of this State. One is the Basic school curriculum dealing with classes 1-8 of the Basic schools. The other is syllabus for the lower secondary stage of instruction (for classes 6-8). In addition some information shout the position of crafts in the schools of Andhra has been supplied by the Educational Research Society, Hyderabad.

In Basic schools eraft work is a compulsory part of the programme of studies in all classes and this is utilised as a centre of correlation. The crafts prescribed in the syllabus is the cetton craft but the school is permitted to follow any other craft with the approval of the Department. In addition to cotton, any craft or crafts may be taken up as optional subsidiary crafts. Besides, general science, which is a compulsory subject, includes gardening. According to the Basic school syllabus the average time allotted to craft work is 12 hours per day in classes 1-3, two hours per day in classes 4-5 and 22 hours per day in classes 6-8.

From the other syllabus which is for classes 6-8 of traditional type, it appears that three periods per week out of a total of 39 periods per week are allotted for arts and crafts. This indudes the time given to craft and music in case of girls. It is suggested in the syllabus that craft classes should be held in the least period in the afternoon so that the boys may continue their work after school hours and thus gain more time. The crafts suggested for these classes are:

Book craft and book binding and gardening for classe 6; book craft and book binding, gardening, wood work and metal work for classes 7-8.

Regarding the time allotted to craft work, it is semewhat surprising that the Educational Research Society, Myderabad, has reported to us that the time allotted to craft work is one period of 45 minutes per week in classes 1-5 of Basic schools, 40 minutes per week im classes 1-5 of non-Basic primary schools, half hour daily for classes 1-8 of Basic schools and 45 minutes per week in classes 6-8 per week of non-Basic schools. In table 5, however, the time prescribed in the syllabus has been given.

As regards the weightage given to the eraft work in the grade to grade promotion of children and the mode of conducting examination in crafts work, there is no description in the syllabi. The Basic school curriculum, however, mentions that the teacher is required to keep record of each child's achievement in craft work for each quarter and these records are scrutinised by the inspecting officers.

The Educational Research Society in this matter has reported

that chaft is not a subject for external elamination and craft is not taken into consideration for and all promotion. Records of craft are maintained and internal proctical test is consucted in junior Ballo, non-Ballo prizary and senior-Ballo schools. In senior-Ballo schools, internal examination is conducted in theory or well as in practice of crafts.

Objectives

The syllabus studied do not mention way specific objectives for the first firsts. For Bould schools, general objectives of the first objectives of the first objectives reported by the Lauretianal erast biociety too are not very clear. The objective given is that graft below the students in our ning a living, and preparation for future life.

ASBAN

Hand work 16 prescribed as a subject for all the classes - 1-8. Some training in a useful hand work such as, spinning, rope making, button making, wood work, beadoo work etc., according to local mecessity is to be imported for all boys from class two mewards. In classes 142 usually paper work and rag work, clay work, bamboo works jute and cloth work are practised. The avilable suggests that in the lower classes hone work chould be done in the spirit of play. Spinning both with Takli and Charkha is to be introduced in almost every echool. Lach pupil from class 5 upwards is required to select one vocational couft from the foctowings agriculture, spinning and weaving, metal work, leather work, wood work. 1xc incustry, talloring and subroidery. printing and dyoing, building together with the making of building materials, such as bricks and tiles. agriculture is taken up we a vecetional craft, any two allied subsidiary industries, such as dairy forming. coultry keeping, bee keeping, seri-colture, pieci-culture, preservation of food and vegetables and fruit canning ere to be taken up as additional subjects. In girls schools for grades one and two same type of the hand work is introduced as for boys. From grade three speaks a graded syllabus for needle work and domestic ad ence is followeds-

The nember of periods per week allotted for hand work in different classes is as follows:-

Grade I	۩i	3 periods out of 30
Orade 2 & 3	49 4 4	4 periods out of 34
Grade 4	***	2 periods out of 38
Grade 5	WORL-	2 partials and of 40 (for cristo)
Grades 6,7,88		Notice of the Laston
8.7.8 Capper		I Periods out of 39 (for boys)

the cylindes does not give any detail of the weightage given to craft work in the grade to grade promotion of children or about the mode of conducting examination in craft work.

BIRAR

The policy of the state government is to gradually introduce Brite pattern of education in all been evolved for elementary place. Craft occupies a coming and spinning with the various processes are processes and processes are processes. clued as crafts in primary classes. One of the following grafts may also be practized wherever facilities exists cardbourd work, clay addelling, toy making and pottery, ropemobiling, is that and ing and mot spling, aluple weavile on castl size loom 'mou i blower tage, etc., waiting of result. iones, amoni, tax, yin avalians sitt.

In derice VI and VII pupils are soquired to select one of the following oir min trufts according to their taute, eptitude, actorning to local conditions and facilities evertable in the schools (1) Spinning and seaving; (2) Gar ening and elementary agriculture; (3) Wood work and bupboo work; (4) Metal work; (5) Hame craft; (6) Clay modelling, toy asking and pottery. Each pupil is required to take one autoidiary craft also. These the select solunity and wearing an their main craft have to take eardening as subsidiery craft; all others have to take spinning on their subsidiery graft. Out of the total working hours allotted for c:aft work roughly three-fourth are to be devoted to the main eraft and the rest to the substituty craft activities.

"crowding the time devoted to eraft the following induced the management of the second of the

- (a) <u>Juring sugger months of April and</u> KAY.
 - 6 hours per week in classon 1-5 and 9 hours per work in classes 6-7(total
 - nucber of school hours per werk during these months are 27).
- (b) During the rest of the months
 - 7 hours per week in classes I.II & III. 72 hours per week in classes IV and V.

 - 95 hours per week in classes VI and VII (total musber of hours in these months 1 3

For those students of classes VI and VII. who take up English as an optional subject the time alletted for work is reduced by three hours per week.

<u>Assessment and evaluation of craft work</u>

The progress record card given in the syllabus shows

that 400 marks out of a total of 1,000 marks are a signed for craft work - 300 for asia craft and 100 for subsidiary craft. For those atudents of classes VI and VII who take up angliah which is an optional subject marks for craft work are reduced to 300 - 200 for main craft are 100 for subsidiary craft. The pupils are required to appear in an attainment intensive text in theory of craft work carrying fifty marks. The overall percentage of pass marks in craft is 30. In addition, children are required to keep recors of craft work which are examined by the assessment board which visits the schools. These records are taken into consideration. In the total assessment for craft work, the following extract from the syllabus may also be found relevant here:

The Assessment Board of different levels visiting a rehool will watch it at work, observe the pupils endaged in varied activities of safai, crafts, study, debates, physical desonstrations, including scutting and debting and hold discussions with the pupils and teachers individualy and collectively. The will examine the recors of he pupils relating to craft work, their disries and notes on correlational subjects and also hold discussions with the pupils with a view to finding out if what had been written in them had been done really with self-effort and intelligent apprehension and appreciation of the contents. The Done's will hold conference with the teaching staff and impediate controlling officers and discuss the ways and means for their solution.

ibe following suggestions given in the syllabus in connection with creft work may also be found useful:-

- (a) wherever possible, trained hereditary craftsment may be employed. Whenever this is not possible, the school staff should try to secure the services of hereditary local craftsmen for training and giving demonstration to the pupils.
- (b) luring the practice of craft in rehad hours care should be taken to see that the pupils not only learn technique of the craft but also acquire necessary know-ledge regarding the source, production and procurement of ray materials, tools and equipment, etc.
- oncouraged to take up specific purposeful projects relating to various crafts. For example, in what work, the project may be maintenance and repair of the school farmiture, supply of specific pupils may take up different projects. Different groups of pupils may take up different projects. The proper planning, exacution and subsequent review of much projects will provide the nacessary experience to the pupils to appreciate the purposefulness of craft setivities.

Objectives

- (a) To create vocational bias, to stimulate initiative and to foster a sense of dignity of labour:
- (b) To equip the pupil with such reasonable skill as to enable him to produce useful articles to meet the basic requirements mfor his life as well as for his school community.
- (c) To offer opportunities for acquiring correlated knowledge in different subjects.
- Motor while keeping the above objectives in view, efforts should be made to ensure that the c aft work is also economically productive. Economic productivity is a good test of the efficiency of craft work and efficient craft work is important if it is to be educationally useful.

OUJARAT

Craft is a community subject in Basic achools as well as in classes I to 27 of the non-Basic achools. It is reported that he non-Basic middle schools in old Bombay State are not Government ones and no information is given for this.

Crafts fo loved:

In Junior Basic achools the crafts of spinning and weaving, kitches gardening and agriculture, card-board modelling and wood work are practised. In non-Basic primary schools simple craft work is practised in clay work, kitches gardening, opinning, card board modelling, bamboo work, paper work, articles from weste, paper-pulp work, case work, mat work, basket work. In the senior basic schools crafts of spinning weaving, kitche and agriculture, card-board modelling and action and card-board modelling and card-board modelling are practised. In each of these schools one of the above crafts of local importance is practised. Crafts in rural and urban areas as well as for boys and girls are the same.

Time devoted for craft work ner week

The time devoted to craft work is 10 periods (each of 35 minutes) in junior basic classes, about five periods in non-Basic prin-ry classes, 10 periods in senior basic classes and 4-5 periods in non-Basic middle classes.

Examination in crafts:

craft is an examination subject in the Basic schools only and it is assigned 35% of the total marks. Out of a total of 100 marks for craft work 40 marks are assigned for general work, 40 marks for practical work and 20 marks for theory.

Objectives:

The objectives of introducing crafts in Busic sc Cols have been reported as follows:

- (1) To give necessary training in craft, to be self-sufficient individually or collectively in the matter of funcamental needs of a human being.
 - (2) To give opportunity to children.

of instruction. Nothing is reported in this respect about the non-ducic consols.

dring as animar

The contents of the syllabus do not mention about any craft work in the classes I to VIII.

KERALL

with the orientation of the syllabus towards the Basic pattern, practice of some useful clafts forms a compulsory part of the school work at this stage.

Crafts followed:

At the primary stage, i.e., I to IV any one or two of the following crafts may be chosen by each school depending upon the availability of raw materials and skilled hands to assist their practice - cotton craft, gardening, coir work, basketry, mat weaving, paper folding and care-board work, clay modelling, maddle work. The crafts suggested for classes VI and VII are - cotton craft, gardening and agriculture, coir work, wood work, card board work and book binding, leather work, pottery, battan work, meddlework and embroidery tailoring.

Time allotied to craft per week

Five periods out of a total of 35 periods.

Objectives of introducing graft work

The ais of introducing craft in classes I to IV is mainly to develop the dexterity of fingers of the children and their powers of observation and creative imagination. In classes V, VI and VII more attention is paid to tidiness and finish of the products.

BALATA PARD-AN

The syllabi for primary classes I to V as well as for VI to VIII have been reported to bt based on the craft cen red syllabus of the Mindustmi Taliai . Agh.

Crefts to be followed:

In clarbes I to V each student is to practice one main and one subsidiary craft. The main craft is spinning while the subsidiary craft may be any one of the following: Cardening, clay work and toy making, paper work and cardboard work, be boo work. The integrated syllabus emphasises the important place given to craft work in clarses VI to VIII. Craft activities along with other retivities form the part of the curriculum but it is not clear whether craft forms a compulsory subject to be studied by each pupil in all acneols. Craft activities have been listed along with other optional subjects and activities, out of which each pupil is required to select any three. Those students who offer crafts can select one of the following - spinning and weaving, gardening, wood work, meadle and embroidery work, leather work.

Time devoted to craft your

In primary classes 6 hours are devoted to the practice of sala craft. The information about other classes is not available in the syllabus.

HAA BEAS

in the curriculum for integral elementary courses of this of to, bandicrafts occupy a compularry place.

Crafts to be followed:

p two out of the 4 crafts - spinning & weaving, paper work and card-board madelling, gardening, clay modelling. Besides, these, certain minor hallowers, for example, stringing beeds and flowers, preparation of decorated materials with paper leaves or flowers, etc., may also be taught where such facilities are available. In classes VI & VII any one of the following crafts may be chosen, is redning apinning & weaving, wood work, home craft, including needle craft, metal work.

Time devoted to craft work per week:

Time devoted to craft work per week is 5 periods out of a total of 35 periods in classes I to V and 4 periods out of a total of 35 periods per week in classes VI & VII. The time mentioned here for classes VI & VII is also used for drawing and music, etc.

Assessment of craft works

Ho external examination is held in craft work. Some records of pupils' progress in craft work are sainthined in all the schools - whether Basic or non-Basic. In Basic schools, however, an internal examination in craft work is also conducted. It is not known what percentage of the total marks are allotted to internal examination in oraft work. Of the marks assigned to craft work 80% are allotted to the practical work and 20% to theory.

Ubjective of introducing craftas

The objective of the syllabus for handicrafts in classes I to V is to give children of these standards opportunity to practice the crafts of simple nature according to their capacity and to produce simple articles of utility as well as beauty. Handicrafts provide for the children an opportunity not only for productive work by developing skills of various kinds but also for creative self-expression in handling rawasterials of verious kinds and transforming them into things of beautiful form and shape. The objective of arts & crafts in the classes VI and VII is to give all pupils scope for self-expression through drawing, painting and allied crafts and to help them to carry out their ideas by means of simple arts & crafts which can be fairly easily learnt and carried out by secondary school pupils thereby giving them training in creative and manual dexterity also.

MAHARASHIRA

Crafts are taught in each of the classes I to VIII.

It is compulsory in Basic schools but optional in non-Basic schools.

Crufts followed:

In junior Basic schools spinning, cord-board and kitchen gardening are followed. In non-Basic primary schools simple craft work in clay or paper work is practised. In senior state achools one of the three crafts viz., weaving, sgriculture, wood work, is followed. In non-Basic classes V to VII, the crafts practised are bamboo work, cane work, paper pulp, kitchen gerdening, needle work.

Time devoted to craft work per week:

Basicschools - 10 periods of (40 minutes each) Non-Bunic schools - 6 periodo.

Assessment in craft work:

Craft is an examination subject in Basic schools only and 100 marks are assigned for it. There is external as well as internal examination in craft work. The record for the craft work during the year is also taken into account at the time of annual exemination.

Objectives of introducing craft works

- (1) It is a medium of instruction;(2) It trains mind and body;
- (3) It develops good qualities such as
- (4) It wriger oll-dired development of the child.

MXSOXE

In the integrated primary school course of seven years in this State a basicoraft has been practime prescribed in the curriculum and some time is allotted in each class for arts, crafts and common activities. It appears, however, that oraft work as yet does not form a compulsory subject in all classes of schools other than full Basic schools, because it is mentioned in the syllabus that in achools other than full Basic schools, in lieu of oraft work, arts & common activities will/be carried on with greater emphasis.

Crafts followed:

In standard I of Basic schools, children do practical work, in paper, kitchen gardening, spinning and mat weaving. This is common for the non-Basic schools also. In non-Basic schools, however, plying of takli may be omitted and more of gardening and clay work may be done. In standards 2-4

of basic schools publis are required to do work in any two of the following three crafts: spinning, kitchen gardening, paper and circ-board work. If land and water facilities are available kitchen gardening is compulatory. In standards 5-7, publis do work in any one of the following three crafts agriculture, spinning and weaving and wood work. Girls may do practical work in domestic science or home craft as craft work. In schools where facilities are available on of the following crafts may be studied instead of the above crafts: Tailoring, hattan work, Toy making, Chalk piece making, Coir making, Dee keeping, wosp making and lyeing and Printing.

Time devoted for craft works

the time devoted to craft work is as fo lower

5) hours out of a total of 27% hours per week in Standards 1-2.

8 hours out of a total of 30 hours per week in standards 3-4.

9 periods (each of 40 minutes) per week in standard. 5

8 periods per week in stand 6-7.

å ____

AGGIAO

In classes 1-5 of this State, gardening, spinning and hand work (including needle work for girls) form a compulsory part of the school work. In class I there is no spinning. Craft work is compulsory in classes 5-7. In a latest communication received from D.P.I., Orissa, it has been reported that craft is being gradually introduced in all middle classes including middle English schools, but since teachers are not readily available for all the schools, crafts teaching has been made optional so far in such schools. In classes 5-7, the following crafts have been suggested; Tailoring, sewing, needle and embroidery work (for girls). Toy making, besketry and Coir work, clay work and pottery, wood work, Spinning and weaving, Cane work, Chay modelling and papter machie.

Time devoted to craft works

Time devoted to craft work is as follows: -

Class I - 2 periods out of a total of 24 periods per week.

Classes 2-3 - 6 periods per week

Classes 6-7 - 100 hours in a year.

Assessment in craft work:

There is no written examination in classes 1-3. In lower-primary examination, 20 marks out of a total of 300 are allotted for craft work. In classes 6-7, 50 marks out of a total of 750 marks are allotted for crafts. The syllabus reveals that 7% of the total examination marks are devoted to written examination in crafts in lower primary classes. It is not clear, however, whether any practical examination and how many marks are allotted to it. In classes 6-7 out of the total of 50 marks, 20 marks are assigned for the whole year's records of craft work and 30 marks are kept for the practical and oral test.

P U N J A B

Agriculture or spinning and weaving as a basic craft is a compulsory subject in the gunior Basic schools. Imprimary non-Basic schools in lieu of craft work, the time is utilised in various activities including in part some craft work. In senior Basic schools also craft is compulsory. In the syllabus for classes 6-8 of middle non-Basic schools there is a compulsory subject known as Practical arts. This includes Agriculture, with special reference to soil conservation measures, or Domestic Science gor girls) or some other crafts such as Spinning and weaving or wood work as suited to the district and loaclity. In addition to this compulsory subject, two more crafts can be chosen as elective papers also.

Time devoted to craft work:

- Junior Basic schools 1 hour per day in classes 1-2.
 - 1½ hours in classes 3-5.
- Non-Basic middle schools 4 periodsper week.

RAJASTHAN

An integrated syllabus has been prescribed for all the primary classes of this State. According to this syllabus oraft forms a compulsory programme in classes 1-5. Regarding classes 6-8, two time tables are given in the syllabus: One time-table is with crafts and the other is the time-table without crafts. This indicates that craft work probably is not compulsory in classes 6-8 of every school.

Crafts followeds

At the primary stage each student is required to practice two crafts out of the foilowing lists: spinning, gardening, clay work, card-board and bamboo work. In classes 6-7 each student is required to take two crafts from the following: Agriculture, spinning and weaving, clay work and pulp work, wood work, leather work and metal work, home science and tailoring.

Time devoted to craft work:

In classes 1-5 two hours out of a total of 62 school hours per day are devoted to craft work. In classes 6-7, 12 hours out of the total of 46 hours per week are devoted to craft work.

UTTAR PRADESH

It is reported by the Directorate of Education that all the elementary schools in the State - primary and middle are Basic schools and hence craft is a compulsory subject.

Crafts followed:

The crafts followed in junior Basic schools are : Elementary agriculture, gardening and allied art, spinning, some local crafts such as clay work and allied crafts, sewing and elementary embroidery and allied arts (for girls). In In the senior Basic schools agriculture is followed in the rural schools. In other schools where land for agriculture is not available (such as in urban schools), one of the following crafts may be followed:-

- 1. Spinning and weaving and allied art
- 2. Wood oraft and alliedart
- 3. Book craft and alliedart
- 4. Metal craft and allied art
- 5. Leather craft and alliedart
- 6. Tailoring and allied art
- 7. House craft and allied art (for girls only).

Time devoted to craft work:

In junior as well as senior Basic schools 12 periods per week are devoted to craft work - 8 periodsfor practicals and 4 periods for theory.

Assessment in Crafts:

Craft is an examination subject but the examination is purely internal. Craft is treated as equivalent to one subject and is assigned 16% of the total marks. Records are maintained at all stages. But these are not generally taken

into consideration in the annual assessment of the students.

Objectives:

It is reported that the objectives of the teaching of crafts is the same as laid down for Basic education. The teaching of craft is related to the teaching of other subjects of the curriculum as far as possible.

WEST BENGAL AND TRIPURA

In the junior and senior Basic schools crafts form a compulsory subject. In non-Basic primary schools crafts are just being introduced. Some details of the creative activities and craft work practised in the various grades are mentioned below:-

Grade I-II.

- (1) Creative and imaginative play Just like making a house, doll play, making some of articles out of a match boxes, preparing furniture for doll house, post office, shope and shopm-keeper play etc.
- 2. Paper work, cutting papers of different designs and shapes.
- 3. Preparing different designs of painting by chalk colours.
- 4. Clay modelling to prepare clays for modelling purposes.
 - 5. Fibre craft.
 - 6. Doll craft, etc.

The articles prepared from these are mostly for play purposes of children.

Grade 3:

Individual and group work:

- 1. To prepare play things out of waste craft and clay, small pieces of wood, bamboo, paper pulp, card-board, etc.
- 2. Clay work, eather pots, plates, bowls and other articles.
 - 3. Paper work, intitation cards, book covers, calendars, etc
 - 4. Leaf and bamboo work, plate fans and brooms.

Grade 4-5:

Continuation of clay work, paper work, leaf and bamboo work and coir work.

In classes 6-8 of senior Basic schools also crafts are compulatory. The crafts followed are needle work for girls, carpentry, agriculture, metal work, spinning and weaving, card board work, book binding, basketry, clay work. In towns carpentry, card board and metal work are mainly practised.

Time devoted to craft works

The time devoted to craft work has been reported as 4g hours per week in junior Basic schools, two hours per week in non-Basic primary schools and eight hours per week in senior Basic schools.

Assessment in Craft works

The crafts are examination subjects in the Basic schools only. In junior Basic schools this is assigned 20% of marks while in senior Basic schools 30% marks are assigned to it. There is no external examination. Records of craft work are kept and they are assigned 50% of the total marks assigned for craft. The remaining 50% of marks are for formal internal examination in theory and practice.

ucialia

Crafts form a compulsory subject in Basic schools. from the integrated syllabus, however, it is not clear whether they are compulsory in non-Basic schools also. The orafts usually practised in the Basic schools are:

(i) Spinning and weaving (weaving starts from class 3);

(ii) clay work and pottery; (iii) gardening and agriculture;

(iv) card-board work and book craft.

Time deveted to craft work

In classes 1-2 : 6 hours per week

In classes 3-4 s 4k hours per week

In class 5 & 5è hours per week.

HIMACHAL PRADESH

Craft is a compulsory subject to be taught in all elementary schools - primary as well as middle. For primary classes following crafts are prescribed. Wool spinning, wool weaving, spinning and weaving of cotton and agriculture. For middle classes i.e., classes 6-8, crafts recommended are as follows: agriculture, home science, spinning and weaving, wood work, dairy farming, poultry keeping, seri-culture, bee-keeping, tailoring, preservation of vegetables and fruits.

Time devoted to craft:

Time devoted to craft work is one hour per day in classes 1-3. For other classes the data are not available.

Assessment in craft work:

No formal examination is held in craft work.

LIST OF SYLLABII . TUITED (Secondary Schoole)

Conser : Secondary School Certificate Exgmination Board; Subjects and Papers for the S.S.C. Sammination; Poone; April, 1960.

LIAMBU AND ; Syllabuses and courses of studies for the Matricu-LIAMBUR lation evamination 1959; The University of Jacque and Kashmir, -ringgar.

LEGALA : Syllabus for Standard Al under Elective System; Covernment of Kerela, Education Department; 1958.

Maddya Pase 1) Prospectus for 1952; High School and Inter-DESH : mediate Examination; Board of Secondary Education, Madhya Pradesh, Sub-Office Gwalior;

11) Prospectus for the Multipurpose Higher Decondary Schools for the Righer Decondary Schools for the Righer Decondary Decondary Decondary A course, 1962; Mahakoshal Board of Decondary Rescution, Machya Pradesh, Jabalpur; 1959.

i Malada i hevised syllabules for secondary and digher secondary Course; Supplement to Fart I-B of The Fort St. George Gazette; 1958.

WISORE : Draft Curriculum for Migher Secondary and Multipurpose Migh School; Repartment of Education; Covernment of Mysore; 1958.

6 Okissa 1) Courses of Studies for the High Schools Certificate Examination, 1961, Board of Secondary

P,

ii) Courses of Studies for the Higher Secondar School Certificate Examination, 1962.

FUNIAB : Magnittions, outlines of test and syllabuses in the various subjects for the proposed Higher Secondary Scheme as recommended by the School Board etc.; Punjab University, Chandigarh; May 1957.

MAJASTHAN : 1) Multipurpose and Migher Secondary School, Courses of Studies; optional group 'crafts'.

- 11) Multipurpose and Migher Secondary School; Courses of States; 849 Optional group 'technical'.
- iii) Prospectus of the Higher Jecondary Examination of the Board of Secondary Sucrtion, Rejestion for 1962: 1959.

0.UTTAR

Pistonially a Syllabus of the Board of Migh School and Intermediate

Enucation, U.P., for 1961 for the High School. Intermediate examination, High School Technical examination and the Intermediate Technical Examination.

- WEST BENGAL :: 1) Curriculum and syllabuses for School Final Examination, 1959; Board of Secondary Education, west Bengal.
 - ii) Curriculum and syllabuses for the Higher Secondary Course: Board of Secondary Education, Vest Bengal: Calcutta.
- DELHI :: 1) Prospectus: Higher Secondary Examination; 1958;
 Three-year course of The Board of Higher Secondary Education, selbi.
 - ii) Prospectus of the higher Jecondary Technical Examination, 1959, (Three-year course) of the Board of Higher Secondary Education, Delhi.
 - 111) Prospectus for the High School Examination of The Board of Higher Secondary Education, Delhi, for 1959.

HINTE PERMIS PROPARIO THAN THE ARGUSTA

OF THE REPORTE FROM STORMAN SCHOOLS

RAWAY.

ANTERA PRADER

Crafts

Craft in a community subject in the secondary schools of Andhra Fradosh. The schools have, however, mentioned that they teach craft as an optional subject. A few schools sention that it is both a compulsory and an optional subject. Consensly the craft is toucht in clauses 6 to 11. In some schools craft is introduced in clauses 6 to 11 or 13. A few schools start craft in the 5th class. Some schools have craft only in clauses 6 to 8.

Chlactiver

The nost accepted objectives in the teaching of crafts appear to be providing occurvational outlet to purils and inculating dignity of labour. These have been endorsed by 58 pahools. The rest accepted objectives seem to be exploring the aptitudes, and interests of pupils and contributing to their laisure time activity. These are enforzed by 56 and 55 schools respectively. The least accepted objective appears to be that of offering opportunity for guided exploration in practical situation endorsed by 37 schools. The schools differ in their opinion about the fulfilment of the objectives. On the shole they do not seem to be satisfied.

Crafts taught

The most popular craft in the State appears to be veaving. This is followed by wood work and brot-birding. Then come mardening and spinning. The statement of number of schools following different crafts appears in the tabular form at the and of the main report.

As will be seen there are noticed special differences in the craftsfollowed in the three types of secondary schools - high, higher accordary and multi-purpose. Metal craft, however, in followed in multi-purpose schools only. Sewing, doll-making, embroidary, here craft and pottery are mentioned as being followed in the girls schools.

All the schools seem to offer only one craft to a student at one time. However, there are eleven schools which offer two craftsand a few schools offer three crafts. Only 34 schools mention that it is not possible for the student to change craft in the secondary stage. Most of these schools mention that it is possible for the students to change craft in the secondary school stage. Most of these schools mention that the classification possible in the 9th class.

The main reason for the choice of a craft by a student is that the craft is provided by the school. This is mentioned by 65 schools. Only 27 schools mention that the

eraft is chosen by the student on the basis of his aptitude. The other reasons viz., parents choice and teachers' choice and craft bains hereditary in the family are mention by 12, 16 and 18 schools respectively.

Hvaluation

Fore them half of the schools do not hold any examinations in crafts. Out of 78 schools that have answered the questions on evaluation, 43 schools report that they do not hold any examinations. 44 schools have contioned that they keep assessment record of pupils. 43 schools assess the quantitative turnover while 35 schools both the creative ability and technical computance of pupils.

In almost all classes assessment is internal. These schools which hold examinations hold it mostly three times in a year. Only a few schools have viva voce examination and most of the schools have both theoretical and practical examinations. The time devoted to theoretical paper ranges from a an hour to 2 hours and marks (ros 25 to 100 (sostly the schools have mapers of 100 marks). Tractical examination also carried 100 marks, the time ranging from 45 minutes to 3 hours. Most of the schools (67) do not take craft marks into consideration for propotional purposes. The minimum pass marks range from 35 to 60%, in most cases this being 35%.

Smagnation:

Special featuress

The following special features have been pentioned by some achools:

- 1. Holding the craft exhibition
- 2. Fractising correlation of craft with other subjects
- 3. Making furniture required by the schools in the craft classes.

Suggestions etc.

The following suggestions have been offeredby the Various schools with a view to promoting craft instructions in the schools. The number within brackets after the suggestion indicate the number of schools offering that suggestions

- 1. Adequate accommedation should be provided. (20)
- 2. Necessary weeft equipment should be made available.(91)
- 3. Trained and qualified staff to be provided. (16)
- 4. Moderning and non-recurring grants to be given in time. (10)

- 5. Crafts should be made an examination subject. (10)
- 6. Craft should be rade compulacry. (5)
- 7. For time should be devoted to crafts. (6)
- 8. Variety of crafts should be introduced in schools ()
- 9. Text_books and journals should be provided. (3)
- 10. The contral corporative store should be set up for the disposing of craft articles. (3)

The replica giving information about the time devoted by a class to craft work are not quite clear. The time mentioned ranges from 14 hour to 33 hours. Apparently some schools have interpreted it as time devoted per work be all the classes. In the whole it appears that the trend is to devote 14 hour to craft work. Usually the craft period is of the duration of 45 minutes. Some schools have the period of 40 minutes Curation also.

Curriculum

Also t all the schools (76) somtion that the content of the craft curriculum includes application of the craft in daily life. A large ramber of schools (63) are of the opinion that it contains reterial decling with manipulative skill. 54 and 50 schools respectively feel that the craft curriculum contains material bearing on the study of the economics of the craft and of the scientific basis of the graft.

A large mapler of schools (65 & 64) feel that the curriculum is integrated with home and community experience and with co-curricular activities 49 schools have expressed the opinion that the craft curriculum is integrated with other subject areas. Justa a large number of schools (73) are of the opinion that the curriculum stresses the creative aspect of the craft.

60 schools have mentioned that the curriculum is stimulating for the pupils and it motivates and prepares them for pursuing craft even after secondary school. However, only 25 schools conduct field trips to places that are of interest from the point of view of craft education.

Physical facilities

Accompanient on a

Replies given to the question about the size of the class-room are not clear. Some schools have given figures which indicate the size of the room while name other schools have given the size of enreleent in a classroom. The size of the craft room ranges from 160 sq. ft. to 1000 sq. ft. The usual craft room appears to be in the

meighbourhood of 500 sq. it. The size of enrolment in a class-

A little more than half of the schools seem to be satisfied with the size of the craft class.

61 schools have given the information that they have a separate room set apart for purposes of craft clauses. Only about half of these feel that the room provides adenate space, although a much larger supper of the opinion is that the room in well-lighted and quitable in other ways.

46 schools have ade wate facilities available for storing craft articles completed by pupilsand other material and supplies.

Equipment:

As for as the working facilities in the form of various material are concerned most of the schools (60) seem to be satisfied with repeaterials available and quite a large master of schools (50) are satisfied as regards work benches (37). Schools mention that they have tables (36), easels (26) and show-cases and display brands (27). However, most of the schools (74) are of the opinion that the material supplied to them are being used quite efficiently. Butte a large master of schools (64) make ray materials available to purils in time.

It ap ears that in most of the schools craft work is done in groups, although individual work is also included. Only 16 schools mention that each student is provided with his own set of tools. In pany cases the student chares tools with 6 to 8 other students.

a large number of schools (51) mention that they possess craft models and charts for teaching purposes. This regard to other instructional materials the schools do not seen to be quite satisfied. Only 15 schools mention that they have periodicals available to them.

Disposal

The most popular rethod of disposing of craft products proposed by students is by sale. Only 60 schools have given well reply to the mode of disposal. Of these 23 schools mention that they anotion the craft products. 16 schools sell them to the public while 3 schools sell them to pupils and the staff. 13 schools mention that the craft products are returned to pupils. 6 schools, however, preserve these products in their own rooms.

Teachers

From the information given by the achoels it appears that in most schools one teacher teacher two grafts. In some cases the schools newtion that there is only 1/3 teacher for craft. Some schools have one teacher for each graft. Wile a few schools have two teachers.

43 schools are of the opinion that the staff provided for the various crafts is adequate. Also at all the schools (71) mention that the teachers have received instructional training. But 40 and 51 schools respectively mention that they experience difficulty in securing craft teachers who know their subjects satisfactorily and who are padagogically trained. Only a few schools (') supley untrained and unqualified artisans for the teaching of crafts.

It is not clear what audifications are prescribed by the State for the craft teachers. From the information given by some schools, it appears that the teachers teaching craft have passed 3.7.1.6. examination. Some schools employ non-high school or non-3.3.1.6. teachers also. Nost of the schools mention that they insist on 8th grade or school final examination with diploma in crafts.

The following institutions have been mentioned by verious schools as offering thaining facilities for eraft teachers:

- 1. Junior Technical Schools at Sikandarabad. Mallaralli
- 2. Government Technical Schrols at Maredpalli, Myderabad, Mashirabad, Rajahmurthari.
- 3. College of Pine Arts, Hydershad.
- 4. Allauddin Technical School.
- 5. Khadi Weul Puslicen, Kachiguda.
- 6. Government Polytechnics, Department of Technical Education, Vocational Institute, Easganj.
- 7. Marku i Kadursa.
- P. Weaving Institute.
- 9. Infuntrial School, Wellor.
- 10. Vivok Vardhami Training College of Tailoring, Hyderabad.
- 11. Ambar Charkha Training Contros, Hyderabad.
- 12. Villago Industries Centre, Hyderebad.
- 13. Buch Gra Udyog, lyderabud.

and Multipurpose achools, Teachers colleges, teachers training

chools, Bario training college, Arta & crafts schools, on Science College.

Most of the schools give malary to the creft tenchers n the grade of 45-100-120. There are various other grades 1so. However, 61 schools have mentioned this grade. The ther grades range from 30-45-100-290.

49 schools have mentioned that the craft teachers are equinted with modern exactions in craft teaching. However, only 83 schools mention that the craft teachers partiples in the community craft activities.

Crafto followed in the Secondary behoofs of MINELL PRINTIN

	Doys	(S c hool Oirla	Co-nd.	Doys	Olrls	condaty Co-ed.	Boys	<u>Utivu</u> Ciri	Coed	To L. a
***	00ph 46th 6520		ence facts stick high	明朝 解解 原	1969 400h 1500			ne inne spe e	10 to 100	
dng	6	1	8	viter .	1	2	3	inte	1	2
.ng	76	3	25	1	1	2	3	seats.	2	11
HIGH	19	1	14	8	400	4	15	•	1	5
oard work	1	•]]	429	**	-	15	1	***	
work	4	2	1	1	nio .	2	ä	ī	-	1
er work	3	押 砂	2	1	423	1	3	2	400	1
craft	3	1	雌	gaple:		49	•	60	das	Á
binding	12	400	6	dia	•	3	oľ	•	4501	3
ring 	3	ī	Ĩ	ési	ī	3	2	2	1	43 *9
r Tank	1	6	<u> </u>	-	2	ĭ	1			1
		2	2	5701	73			4	400	
	2		3		<i>1</i> ⊘ * ¶	1	@	198		
aking	2	4	2	ĺ	1		*	70	4	
ng	-	7		= ::			1	rest.	100	3
making	497		laga afin	Appair Appair	NO.	4800 M	⇔	-	4500	
model ling	2	, 1889A	2	1		1		400	400	
1dery		***	4		-4-					
le work)	e#b	6	l	₩	8	1	W	2	蟒	*
ning -	1	17	1	em.	22	1 3 1 2	1	elec	gA:	# (1)
ulturn	1	400	12	1	,mate:	1	44	480	1	4
craft	449	5		400	3	2	44	2	937	
ical sub.	#15		with the same of t	1	NEXT	-800	40	480)	oğa-	
eraft	929	69	(22)	200	***	449	2	**	**	
Ind noor-										
ing		q	439	1	623 -	W	1005	with the same of t		
ry	460	1	***	estary estary	200		atrii .		1	
* J	-	484			1			and	4.	
	, person	****	1044		7	*1000		100h	444	
				羽接	1	5%	40	39.0 .	***	
ing		鄉	蝴蝶	₽	Ā	****	1	eith)	date	

BIHAR

Crafts

Craft is compulsory subject in the secondary schools of Bihar. Only 3 multi-purpose schools have reported that it is an optional subject in those schools. Generally craft is introduced in grades 6 to 11. In some schools craft is taught in grades 8 to 11, in some in grades 6 to 9. There are a few schools which have other variations like 6 and 7, 9 to 11 and 6 to 10.

Objectives

The most accepted objectives seem to be that of inchlcating dignity of labour which is endorsed by most of the schools (46). The other highly accepted objectives are that craft enables pupils to gain manipulative skill, that it makes pupils appreciative of craft products, that it melps them in the use of inexpensive and locally available material and that it provides vocational outlet. The least acceptable objective seems to be providing of opportunity for guided exploration and experimentation in practical situations. The objectives of providing specialised experience and making them well-equipped for house-hold repairs are also less acceptable.

It is not clear whether the schools are satisfied with the achievement of the objectives, although many schools mention that the objectives are being satisfactorily achieved.

Crafts taught

The most popular crafts in the secondary schools of Bihar seem to be spinning and kitchen gardening. These are equally popular in the boys and the mixed schools, though kitchen-gardening is not practiced in the girls schools. Gardening seems to be the next in popularity. The list of the crafts and the number of schools providing for these appears at the end of the report. As will be seen paper work and drawing (if drawing can be called a craft!) are found only in multi-purpose schools. As is evident, embroidery is taught in the girls' schools. There does not seen to be any special difference in the crafts offered in the boys and girls schools or in the three types of secondary schools.

The schools mostly provide only one craft at a time to the students. There are only 5 schools mentioning that a student can offer two crafts and only one schools has the possibility of offering more crafts. A student learns craft from 2 to 6 years. In most schools this period is 4 years.

The main basis of the selection of a craft by a pupil is its provision in the school. The majority of schools have mentioned this quite frankly. Some schools (15) mention that the hereditary occupation is an important factor while some others (13) mention pupil aptitude as being the determining factor. 11 schools have communicated that the parents choice

and teachers choice are important in this respect.

About half of the schools mention that it is possible to change crafts. In most cases the student has a choice to change in the 10 grade while some schools have 7 and 9 grades being the grades in which a change can be made.

Replies to the question as to how many hours are devoted to craft teaching are very vague as some schools seem to have mentioned total number of hours for the various classes. The general practice appears to be to devote about 12 hours to 3 hours or 4 hours per week to craft teaching. The usual duration of a period is 40 or 45 minutes. Majority of the schools seem to be satisfied with the length of the period provided for craft work.

Curriculum

38 out of 50 schools indicate that the content of the craft curriculum has relation to the application of craft in daily life. 31 schools mention that the craft curriculum includes manipulative skill items and 27 feel that it includes study of the economics of the craft and of the scientific basis of the craft.

The majority (37) of the schools are satisfied with the integration of the craft curriculum with home and community experiences and with co-curricular activities (51). Only 17 schools, however, indicate that it is integrated with other subject areas in the programmes of study.

The majority of schools are of the opinion that the craft curriculum stresses the creative aspects of craft and about half indicate that it stimulates interest in the pupils to prepare them for craft pursuits beyond the secondary school.

Only a few schools (6) organise field trips to places of interest from the stand point of craft education.

PHYSICAL FACILITIES

Accommodation

The size of the craft room seems to vary from 150 sq. ft. to 400 sq. ft. The usual pattern being 360 sq.ft. About half of the schools are of the epinion that it is adequate for the nature of work to be done.

Only a few (10) schools have the provision of separate room for the teaching of crafts. Usually the schools seem to be satisfied with the space available and about half of the schools feel that the room is well-lighted and otherwise suitable for the purpose.

Only some schools (18) have adequate storage facilities for keeping craft products prepared by students and other supplied.

Equipment

A little more than half of the schools indicate that adequate raw-material is made available to the schools and little less than half are satisfied with the tools available in the schools. Very few schools indicate that they have adequate working tables or work benches or easils or show-cases or displayboards. Most of the schools, however, feel that the material and equipment supplied to them are being efficiently used. Most of the schools also indicate that raw-material is supplied to the students in time.

In most of the schools, students work in groups. Some schools have mentioned that they work both in groups as well as individually. About half of the schools mention that each student is provided with his own set of tools and in the schools in which he has to share tools, the number with whom he has to share varies from 4 to 20, theusual pattern being 4 and 8.

Only a few (8) schools keep the workshop open outside school hours. There is no specific answer to the question how many students utilise the provision of the opening of workshop after school hours.

Of the instructional materials provided for craft instruction, a little less than half of the schools seem to have text-books for this purpose. Only 13 schools have teachers file of material or pupils collection of craft designs and material. Less schools have reference material or craft models and charts. A few schools have periodicals available for this purpose.

Disposal

About half of the schools dispose of craft products by selling them in the market. 14 schools report that the craft products are returned to pupils and 8 schools sell them to staff and students. Only 2 schools mention that the disposal is made by auctioning.

TEACHERS

Mostly schools have one teacher for one craft but in some cases one teacher is teaching two crafts and there are 3 schools which do not have any teacher at all. Some schools have 2 teachers and some even three teachers. 28 schools, however, feel that they have adequate staff for the crafts.

More than half of the schools indicate that the teachers have received instructional training in crafts. However, more than half of the schools mention that they have experienced difficulty in securing craft teachers who know their subjects satisfactorily and these who are padagogically trained. Only few schools employ untrained and unqualified artisans for the teaching of crafts.

Information is not clearly indicative regarding the qualification of the teachers. There seem to be 2 or 3 patterns

having Matric and Basic trained teachers, having intermediate pass teachers and having Graduate teachers with diploma in Crafts.

The following institutions have been mentioned as providing training for creft teachers:

- (1) Basic Training Schools:
- (2) Servedaya Training Contro:
- (3) Teachers Training Colleges.

The pay scales are not clearly indicated. There seems to be these patterns 40-60; 50-90; 70-100; 120-300. It is not clear from the attached sheet what the waval salary pattern is in the State.

Less than half of the schools mention that eraft teachers are acquainted with modern practices and more than half of the schools indicate that the craft teachers participate in community craft activities.

MANTALICIT

Almost all the schools maintain records of progress of pupils and more than half of the schools evaluate creative ability and quantitative turn-over by the pupils. Less than half of the institutions evaluate technical ecapetence of the pupils.

Most of the schools use internal assessment and some schools use both internal and external assessment. In most of the schools examination are held usually twice a year. Ther are some schools (12) which have no examination in crafts. The pattern of examination is not clear from the replies. Only (11) schools have examinations in theory and 16 in practical, while 9 schools mention that they have both in theory and practical. The theory paper is usually for 2 to 3 hours duration carrying marks ranging from 40 to 180. The practicals are for half an hour to three hours and the range of marks is from 20 to 100. Only 5 schools have provision for yive-yone examination.

Most of the schools (36) mention that marks in crafts are considered towards promotion of the students to the next grade. The minimum percentage of pass marks ranges from 30 to 40.

SHOUSEYPICHS. PIPO.

Special features.

There are only two special features mentioned by two

- (a) All the teachers take part in gardening;
- (b) Provision of bamboo work.

Preacting craft work

The following steps have been reported by the different schools to promote craft work in their respective institutions:-

- (a) Organising speeches on orafts;
- (b) Organising exhibitions;
- (e) Distributing fruits and flowers produced in the garden.
- (d) Provision of prizes and ecapetiton;
- (e) Encouraging teachers to participate in craft activities:
- (f) Seeking help from agricultural supervisor.

Suggestional

The following suggestions have been given by different schools: Number in the brackets indicate the frequency of suggestions given:

- (a) Recurring and non-recurring funds should be provided 421
- (b) Trained crafts teacher should be provided (16)
- (c) Adequate equipment and materials should be provided (15).
- (d) Adequate accommodation should be provided (9)
- (a) Whole time craft teachers should be employed (3).
- (f) Craft should be at par with other subjects of the curriculum (2)
- (g) A number of crafts should be introduced (2)
- (h) Craft teachers should be given better pay scales (2)

256

CRAFT PRACTISED IN THE SECUNDARY SCHOOLS OF

Frantisel			gc]					Loni G	gesse.	
planing	8	2	7			5	8		1	25
Boay Making	1	49	4	₩	gith.	ess	499	egn.	湖	1
Atchen Gardening	9	40	8	2		2	663 3	●	2	23
ierdening	3	2	2	1000	•	3	1	43		11
Agriculture	1	100	1	•	6	1		*	1	5
Printing	1	49		*	•	499	63	•		1
Asbreidery (Weedel work)	榔	8	1	Ø ₩	60	***	***	(23)	*	3
Mbre Craft	***	NO.	-879	***	444			Assista	***	1
Technical Subject	400	esph.	Sin	*	***	489	•	******	2	2
Motal Craft	63	40	****	中	##	1.	****	***	2	3
Sewing	F	***	444	聯	48		****	1	43	1
Comerni Engineering	\$ -	603	400	digit	10	*		•		
Drawing		\$10	**		499	瞬	1	*	1	
Talloring	1	1	1	和	48	8	1	梅野	***	6
Wood Work (Carpent	~	撤車	1	rgán	Vigita	**	2	49	2	5
Olay work	•	44	466	椰	****	1	瞬		933	I.
Mome Grafts	1	1	@	福	400	dig	100	***	****	
bee Keeping	1	@	***	68		1888	69	(ES)	*	1
Card Board work	1	49	4000	40	1654	***	•	48		1
Weeving	***	1	聯	A		in the second	1	碘		
Leather work	4	1	etb)	445	***	1	1	*	400	eri G
Paper work		•	*	***	**	**	1	***	***	1

COLLARAT

CRAPT

All the schools which have raplied to the questionmairs from Gujarat Thits are high schools except six multi-purpose schools. All those schools tuch craft as a compulsory subject. There is only one school which rentions that craft is an optional subject. In all schools crafts are taught from 5 to 8 classes. In two schools it is mentioned that the craft is taught in 6 to 9, in one school from 6 to 8 and in 8 schools from 5. to 10.

Objective

The most accepted objective of craft teaching in the schools of Gujarat seems to be that of inculcating dignity of labour through craft. Of out of 50 schools have endorsed this objective. The next popular objective is of the significance of craft in contribution to the leisure time artivities of pupils, and and by 3 schools. Next in order, are the objectives of making students better house-holders, making them appreciative of eraft products, empline them to gain monitualize skills. The least accepted objective (address by 11 schools) is that of offering opportunity for guided exploration and experimentation in practical situations.

First of the responses to the question asked to what extent the objectives are being fulfilled indicate that the schools are satisfied with the objectives being made in the craft teaching.

Crafts Taught

The most popular crafts in the waivet schools are spinning and weaving being followed by almost half of the schools. The next craft in popularity is embroidery or meetle work, followed by tailoring, sewing, wood-work and agriculture. The details may be seen in the attached table. As will be seen there does not seem to be any difference in the crafts taught in high schools and multi-purcose schools. Embroidery and sewing, as can be expected are taught only in drist or co-educational schools.

The schools usually provide only one craft to a pupil. However, there are some schools which have provision of two crafts. The main reason for students' choosing a craft in that the craft is provided in the school. Most of the schools have indicated this clearly. Very few schools mention other reasons: students' aptitudes, here-ditary nature of craft, choice of parents and choice of beachers.

Mostof the schools indicate that it is not possible to change the craft. Only IS schools feel that there may be thange in the craft. All these schools indicate that the change is possible in standard VIII.

The time downtood to crafts varies in the schools. The usual pattern appears to be devoting his hours per week for craft toching. The range is from 10 hours to 6 hours. There is one school which has mentioned his hours, another 100 hours and two other schools 14 and 20 respectively. It appears that there is some pisumderstanding in the reporting of the time downted to craft teaching by these schools. The general trand seems to be, as indicated above to have 30 hours per week for craft work. The usual length of the period seems to be 35 or 40 minutes. Most of the schools have periods of 35 minutes duration. Most of the schools (47) feel that the time devoted to craft work is sufficient for the surpose.

Correction

Most of the schools indicate that the content of their craft curriculum includes application of the crafts in daily life (45). Most of the schools (43) also indicate that the craft curriculum includes study of the economics of the craft and the scientific basis of the craft. A large number of schools (34) indicate that it contains manipulative skill.

More than half of the schools indicate that the curriculum is integrated with cocurricular activities. But less than half of the schools (23) and about 36% schools indicate that the curriculum is integrated with other subject areas and with the home and community experiences. More than half of the schools indicate that the curriculum stresses the creative aspects of craft. Less than half of the schools feel that it stimulates interests in the pupils for propering them for craft pursuits beyond the secondary school.

A small number (17) of schools conduct field trips to places of interest from the stand point of craft education.

PHYSICAL PROTECTION

Accessodation

The size of the classroom used for teaching of eraft differs from school to school. The range of the size is from 200 sq. ft. to 1500 sq. ft. It is difficult to find the usual size of the room. It appears that the size in a usual school is from 300 sq. ft. to 500 sq. ft. More than half of the schools indicate that this size is sufficient for the rature of work being done.

In most of the schools (45) there is a separate room specially meant for craft classes. Heat of these schools feel that the room provides adequate space for this purpose. Almost all the schools are of the opinion that the room is well-lighted and suitable for the purpose.

lities for kenning craft products completed by students and other reterial.

b

Kani Inchi

of the equipment provided most of the schools (41) sees to be satisfied with the ade uncy of the raw-material. The schools also have sufficient tools (38). A little more than helf of the schools have display-here. Almost all the schools indicate that the natural? Provided are sufficiently used.

Most of the schools (46) indicate that raw-materials are provided to pupils in time.

(equach

Fore than half of the schools in Gibrat do not seen to be sets ied with the various instructional material provided for craft instruction. About half of the schools feel that the text-books and reference material are provided and that teachers files of material are available.

Less than half of the schools have provision for pupils' collection of craft designs and craft models and charts. Very faw (?) schools have periodicals on craft.

Margaal

The usual way of disposing of craft products seems to be through the sale of these products. Most of the sale is done in public. The schools have indicated this kind of procedure. Articles are also sold to the students and the staffer the schools and in few schools they are auctioned. Here schools return the articles to the students prepared by them. Some schools store the craft products.

TRACTOR

In most of the schools one teacher is employed for one craft. One school as reported that it has no teacher. A few schools have 2, 3 or even 4 teachers for one craft (usually for spinning and weaving).

Almost all the schools indicate that they have adequate staff for the teaching of crafts and almost all the schools also indicate that the teachers teaching crafts have received institutional training in crafts.

The replies do not clearly indicate the qualifications of the teachers employed for teaching crafts. It ranges from non-Matrie to Graduate education. Usually the pattern seems to be to have Matrie-pass 3.7.6. teachers having some training in crafts. About half of the schools experience difficulty in securing craft teachers who know their sub-jectsetisfectorily and teachers who are pedagogically trained. They for schools indicate that they use untrained and unqualified artigans for teaching of crafts in the schools.

The following institutions provide training for eraft

- 3 .
- 4.
- Gujarat Vidyapenth, Abmedabad. Vallabh Vidyalaya, Bochasan. Chimmabai Idyog School, Baroda. Kelawani Handal, Balasinar. Government Banic Training College, Rajpipla. 5.
- 6. Stri Mardal, Smat.

The dalary scale differs from school to school. range seems to be from R. 55 fixed to B. 100 to R. 180. appears that the usual grade is Pr. 75/- to Pr. 140/-, although there are rany variations in the saley scale.

Fore than half of the schools indicate that the craft teachers are ac uninted with the modern practices in teaching of erafts and about half of the schools are of the origina that the craft temchers participate in community craft activitios.

RVALUATION

Most of the schools raintain record of pupil progress About half of the schools indicate that quantitative turnover of the public is evaluated. Less than half of the schools evaluate technical competence and creative ability.

Kost of the schools have internal assessment of craft work and some (17) have both external and internal.

All the schools hold exeminations in craft. About helf of the schools hold examination once a year and some schools twice a year. There are a few schools which hold examinations 3 times or 4 times a year. Most of the schools have both theoretical and practical examinations and few schools also have viva meg. The schools which indicate (2) that they do not have any practice examinations consider the class marks obtained throughout the year towards exemination. 14 schools indicate that the year's work is also taken into consideration in addition to theory and practical exeminations. consideration in addition to theory and practical examinations. The general position of the examination seems to be to have 50 marks for theory and 25 for practicals and 25 for year's work. The theory paper is of the duration of about 3 hours, the range being from one to three. The practical examination is held for time verying from 2 hours to 3 hours. The marks prescribed for theory examinations and practical examinations vary respectively between 20 to 100 and 25 to 100. Yawa Yose, where held, is for a duration of 10 to 30 minutes carrying 10 to 25 marks. Almost all the schools have 35% pass marks prescribed for examinations. Most of the schools take marks into consideration for purposes of promotion. marks into consideration for purposes of promotion.

SUM TIONS

Proporting event works

The following steps are reported to be taken by the schools to promote temphing of crafts in the schools.

- 1. Holding of exhibitions of craft work;
- 2. Arrangement of visits to exhibitions and other places of interest.

- 3. Provision of extra period for craft work;
- 4. Provision of suldance to mady students;
- 5. Arrangement of film shows;
- 6. Providing competition for improvement of work;
- 7. Organising mass spinning on some occasions;
- 8. Indisting on proparation of articles of daily use.

the following suggestions are offered by the various schools for promoting teaching of graft:

- 1. unlified and trained teachers may be provided.
- ?. Teleher-pupil ratio should be reduced.
- 3. Ado unte furis may be made available.
- 4. Craft should be made an outlonal subject.
- 5. Bufficient accommodation for craft classes may be provided.
- 6. More time for and teaching may be given.
- 7. Adormato resounterial may be made available;
- A. Craft should be officient in higher classes;
- 9. Unitable text-books and reference books should be provided;
- 10. The profit of oraft work should be given to the students.

Crofis followed in the secondary 8 chools of GUILLE

	Mah	Bahool.		 Mnlti			Total
	icya	aris	Co-end.	Dey's	(Arla	Co-nd.	
异类 医有性		李俊 原原 李章 李俊	test feet feet total est			· 美国 · 中国	建一种一种 化二种
suming	17		16	驗	***	8	20
ver vi ng	7	#27	19		gate:		20
Babroidery (Seedle work)	skilh	7	5	\$ \$\$	1		13
Talloring	TO STATE OF THE ST	森道	R	海 爾	憐撼		10
Agriculture	ngkah	quà.		1	PSA	3	Ď
Nood Tark	1	###	Ą	•	(2))	6
Gurdening	Quin	柳	16號	11	₩		1
Seving.	del		6	Vapel		976L	A
						anna didiri indire s	

CHAPTS.

Almost all the schools from Kerala have indicated that craft is a compulsory subject. However, there are four schools which indicate that it is an optional subject. The usual pattern seems to be having craft in the glasses 6 to 10 or 6 to 11. There are some variations. Some schools have craft from class 7 while in other schools it is from 6 to 9 or 6 to 8. Some schools teach craft from class 5. However, seet of the schools provide teaching of craft for classes 6 to 10 or 6 to 11.

Chicaltyna

The most accepted objective in the secondary schools of Kerala seems to be the contribution of eraft in inculcating dignity of labour. 70 schools have endorsed this objective. The next objectives in acceptance seem to be providing vocational outlet of pupils, enabling them to gain manipulative skills, contribution to the leisure time activities and making them approximation to the leisure time activities and making them approximation of oract products. The least accepted (endorsed only by 27) seems to be that of efforing opportunities for guided exploration and experimentation in practical situations. Next of the schools of Kerala see to be disentiafied with the active meant of these objectives in the actual teaching oracles.

Centra footby

The most popular eraft in the schools of Kermia seems to be embreilery, although it is taught only in girls schools or in ec-educational institutions. Namely popular craft is weaving which is a common erift care; beyo and girls other-les. Yest in popularity are opinate; and book-binding. This crim; is found in many schools. The details of the crafts practised in schools of Kermia way be seen in the attached table. As will be seen from the table there are no difference in crafts taught in high or higher secondary or multi-appear schools. Metal work and leather work are not found in girls schools. Hebroidery or medicaret, saving and hemo-eraft naturally are found only in girls schools or in schools.

Most of the schools provide only one craft for a student. However, there are some schools which provide two crafts and 2 schools provide 3 crafts. The main reason for the choice of crafts by the students some to be the provision of the craft in the school. 72 schools have endersed this. Some schools indicate that the choice is made on the basis of the students' aptitude or the teachers choice. Very few schools (5,7 & 8) indicate that the selection is made on the parents' choice or due to other factors or because craft is hereditary in the family.

Less than one third of the schools mention that it is messible for the stricts to change craft during the securisry school. Next of these schools indicate that the change can be made of ther in the Oth or in the Oth grades.

It is not clear how many hours are devoted to craft work by a class juring one week. As in other States the replice are different because some schools have indicated hours for eraft education for all the classes. However, the range is 12 hour to 9 hours. The usual pattern seems to be of devoting about 5 hours per week in one class. 60 schools feel that the periods which are usually of 40 or 45 minutes juration are sufficiently long for eraft work.

Carrionis

Most of schools (70) initents that the centent of the craft ourriculum include manipulative skill. The same number of schools initeate that it includes application of craft in fally life. However 53 and 50 schools initeate that the craft curriculum includes study of the economies of the grafts and the scientific basis of the crafts.

Many schools are not satisfied with the integration of the curriculum with different espects of child's experience. SO schools indicate that the craft curriculum is integrated with co-curricular activities. Only 20 schools are of the cylnion that the civi end in integrated with other subject areas in the progresses of study. Many schools, however, feel that the curriculum obvesses the creative aspect of crafts. 50 schools are of the opinion that the curriculum stimulates interests in the papils and propares them for craft pursuits beyond the seconday school.

Chly a few severis (7) organise field trips to the places of interest from the stand point of craft education.

Agermed ablem

The schools have not clearly initiated the size of the classers. Some schools have interpreted it as the number of the him is a class while other schools have understool it to be the size of the rock in which crafts are taught. The size of the rock ranges from 130 sq.ft. to 1300 sq.ft. Most of the schools seek to have craft rocks near about 500 sq.ft. The unaber of students reading in a classer of the rock is sufficient for craft work. About half of the schools indicate that the size of the rock is sufficient for craft work. About half of the schools indicate that the school indicate that the school indicate that the school indicate the school

Coly 33 schools initeste that the adequate storage facilities are available to them to store craft products of pupils and other naturals and supplies.

Construction Confi

Many somecls (54) are satisfied with the availability of elegants represental and of teels. However, the reheals if denoted seem to be dissatisfied with the realishility of other

equipment like werk benches (only 21 schools indicate that they have adequate supply), tables (22), easils (14), show-cases (3) and display-boards (11). Most of the schools (68) indicate that the material and equipment supplied to them are used efficiently. The same number of schools indicate that raw-materials are made available in time to pupils.

The usual pattern in the schools seems to be working in groups in the craft activity, although quite a number of schools have individual work. Only some schools provide each student with his own set of tools. The students possessing their own toolgrange from 2% to 50%. But in most cases the percentage is in the neighbourhood of 10.

The schools do not seem to be satisfied with the instructional materials provided for craft instruction. Only 33 schools indicate that they have sufficient collection of pupils' craft designs and materials. 29 have text-books. Only a few schools have periodicals.

Mancael.

The usual pattern of disposal of craft products is to auction them. About half of the checks practise this mode of disposal. Some schools sell the products to pupils and some to the public. Some schools also have the practice of returning the products to the pupils mainly for the reason that the pupils provide raw-material and would like to take the products back.

TEATHERIS

Mont of the schools have one teacher for each craft, although quite a large number of schools have only half a teacher, the same teaching two crafts.

Less than one third of the schools indicate that the staff is adequate for each of the crafts.

Most of the schools feel and this is borne but by the remarks made by them in the suggestion part of the questionnaire that the staff is not adequate for crafts.

A large number of schools indicate that the teachers have received institutional training in erafts. It is, however, not clear what the prescribed qualifications are. The general trend seems to be having Matriculate teachers with certificate in education or in crafts. There are some schools employing Middle pass teachers and some schools have Intermediate and B.A. pass teachers.

About half of the schools indicate that they experience difficulty in securing craft teachers who know their subjects satisfactorily and a much larger number of schools talionte that they have liftenly in securing craft teachers who are pelagogically trained. (nly a few (16) schools use untrained endangualitied artisans for teaching of crafts in the schools.

The following institutions provide training in crafts:

- (1) Industrial Training Institute, Shadi Board.
- (2) Industrial Training School.
- (3) Government Training Institute, Beypose.
- (4) Cocupational Institution, Trichur.
- (5) Post-Graiunte Basic Training College, Trichur.
- (6) Basic Training Schools.
- (7) Ramvaran Technological Institute, Trichur.

Although the salary patterns vary, the general grade for eraft teachers seems to be Rs.40 to B.120. Some schools employ teachers 1 % the grade of 55 to 150 or its variation.

More than half of the schools indicate that the craft teachers follow modern practices of education in teaching craft. 31 schools are of the opinson that the teachers participate in community craft activities.

EVALUATION

Many schools do not have any evaluation programmes for crafts. More than half of the schools do not have any examination in craft, only 29 schools have indicated that they have examinations. However, 40 schools have indicated that they evaluate creative ability, 37 maintain record card of progress of pupils and 31 and 29 respectively evaluate quantitative turnover and technical competence.

These schools which have evaluation programes have internal evaluation, only 4 schools have indicated that they have external evaluation. The examinations are usually held three times a year although there are schools which have one or two examinations in a year.

Most of those schools which hold examinations hold both in theory and practice. A few schools have also <u>viva vode</u> examination. The theory paper varies from a hours to 32 hours mostly two hours, and the maximum marks are from 50 to 100. Practical examinations are held from 1 hour to 3 hours carrying 40 to 100 marks. Most of the schools have 35% as the pass percentage, the range being from 30-50.

Very few (9) schools consider marks obtained in crafts for promotion to higher classes.

SHOGESTYLONG, BYG.

Premeting graft work

Only two special features have been mentioned by two schools to promote eraft work - Organising study tours and holding competition and awarding of prises.

ingranticas.

A number of suggestions have been of each by the schools of Kerala to proacte eraft work. It seems that act of the whools are dissatisfied with the coaft work being ione in the schools. The following are some of these suggestions. The numbers in brackets indicate the number of schools offering the suggestions.

- (1) Mequate space (28)
- (2) Mequate equipment (35)
- (3) Qualified and trained staff (45)
- (4) Prevision of variety of erafts (14)
- (5) Bhough raw-material (10)
- (6) Better syllabus (6)
- (7) Graft marks to be considered for premotion (5)
- (8) Nore funds (5)
- (9) More time for classes (3)
- (10) Craft to be hal as an optional subject (3)
- (11) Craft to be given compulsory status (3)
- (1?) Exeminations in craft should be held (3)
- (13) Bether assessment methods (3)
- (14) Craft to be correlated with teaching subjects (2)
- (15) Craft in conformity with Local conditions (3)
- (16) Craft should be started only when facilities available (1)

Crafto de Clowed in the Berondony Behoods

Crafts	Hig	h Sel	hocl	Mr.	Segen	dary	Nult	il-pu	rpcs ø	Total
VENTE	b	0	C	3	0	G	9	0	<u>C</u>	医乳球虫虫 医牙子宫切迹
piming	4	3	14	3	€ 24	2	•	1	1	27
leaving	4		19	2	@	3	657	1	3	35
labriciery (naedle work)		13	16	673	43	7				38
Callering	<	G	8			6	92	1		22
Mbre craft	₩		4	4	•		•	49	2	8
Garloning	₩	4	7	#	**	193	69	@		13
Book binding	4	3	14	3	®			•	1	87
Card beard work	40	1	1		•	(#3	•	翻	4	
Hood work	1	**	3		•	1		49	3	•
Sering	黝	2	8	455	©	8	•	織	**	
Imo Craft		1	動	@	*	\$		60	ios.	4
Leather work	1		2	435	49	1	*	\$	₩	Á
Notal work	1			49	*	®	•		1	4
Paper werk	•	2		49		物	***	(4)	•	
Cane work	48		4	199	•	4	400	œ#		
l'ishory		y 1999			'@		御		•	42

MATRIA MARGAN

CHAFT

In the secondary schools of Madhya Pradesh craft is a compularry subject. Only one school out of 66 has reported that craft is an optional subject. Craft is taught in classes 6 and above. Some multi-purpose schools, however, have crafts in classes 9 to 11. Some igher secondary schools also teach craft in classes 0 and above.

Chiectiven

The most acceptable objective of craft teaching in Mailyn Fradesh seems to be that craft inculates dignity of labour in the students. Most of the schools name entered this objective. The next most acceptable objective is the contribution of craft in exploring the aptitudes and interests of pupils. A little more than half of the schools accept the objective of enabling the student to gain har relative skills and the contribution of craft to leisure time activities of pupils. About half of the schools work for the objective of providing vocational outlet to pupils through crafts. The least acceptable objective is that of offering opportunities for experimentation in practical situation. The other objectives are vis., providing specialised experience to develop abilities, making the students better house-holders and giving them confidence to use inexpensive and locally available material are accepted by a little less than half of the schools. Most of the schools feel that these objectives are being fulfilled quite well in their schools.

Crafts Tavett

Gardening appears to be the most popular in the schools of Madhya Pradesh. This is followed by spinning and weaving. Good work and tailoring come mart, followed by embroidery. The deatle may be seen in the attached table. As will be seen, spinning, weaving, gardening, tailoring, printing and soap-making are the crafts which are introduced only in higher secondary and multi-purpose schools. There does not seem to be any difference in boys and girls crafts excepting for embroidery in girls' and metal craft and engineering in boys' schools.

The schools in Madhya Fradesh provide only one craft to the students at a time. There are only five schools which mention that they provide S crafts to the students. The most important reason of choosing the craft is that it is provided by the student. About 1/3rd schools mention that the choice of the graft is based on aptitude of the student. Very few schools have mentioned other factors like hereditary status of craft, parents' choice or teachers' choice as factors determing selection of crafts by the students.

A little more than l/3rd of the schools mention that it is nowible to change craft in the secondary school. West of these achools suggest that the change is possible in the f class although there are some schools which suggest that the change is possible in grade 8.

As in case of other Status, the replies to the question as to how many hours are devoted to craft teaching are not very clear. The range seems to be from 19 hours to 3 hours per week, although a few schools mention one hour or even less. The general trent seems to be having about 7 hours. The period for craft teaching is usually of the duration of 40 minutes, the range being from 35 to 46. About half of the schools feel that the class periods available for craft teaching are of sufficient length.

Gurrian lun

Most of the achorla (56) feel that the curriculum includes material which stresses proper application of the craft in daily life. Fore than half of the schools feel that the curriculum includes content related to manipulative skill. A little more than half of the schools indicate that the content of the craft curriculum are related to the study of the economics of the crafts and the scientific basis of the craft.

More than half of the monocle eem to be satisfied that the curriculum is integrated with the home and community experiences and with co-curricular activities. About 1/3rd of the schools, however, feel that the craft curriculum is integrated with the other subject areas in the programme of studies. Most of the schools are satisfied that the craft curriculum stresses the creative aspect of crafts. More than half of the schools indicate that the craft curriculum stimulates interests in the pupils and repares them for craft pursuits beyond the secondary school.

Only a very small manber of schools (16) conduct field trips to places of interests from the stand point of eraft education.

PHYRICAL PARTITION

Accommodation:

Peplies to the question asking the size of the classroom are quite vague. Some schools have interpreted it as the size of the rose and some schools have interpreted it as the sumber of students in the craft class. The number of students in the classroom ranges from 12 to 40, the usual size pattern being 30 to 36. The size of the eraft rose ranges from 200 sq. ft. to 1600 sq. ft. The usual size seems to be about 600 sq. ft. About half of the schools feel that the size of the classroom is in commensurate with the nature of the work.

A little more than half of the schools have separate room evaluable for conducting craft classes. Most of these schools seem to be satisfied with the space in the room provided for this pursoes and that the room is well lighted and suitable from other points of view.

About one third of the schools have adequate storage facilities where they can keep the work done by pupils and other material and supplies available to them.

Rentment:

The secondary schools of Madhya Pradesh do not seem to be satisfied with the working facilities available in the form of various kinds of equipment. About half of the schools indicate that they have ade nate supply of tables and less than 1/3rd indicate adequate supply of work beaches and easils@bout half of the schools are satisfied with the available tools for eraft work.

About half of the schools feel that the material reference given is efficiently used. 4A schools in the first the resemberials are made evailable to the pupils in time.

In most of the schools work is done both in groups and individually. There are some schools in which work is done only individually. About 1/3rd/schools mention that the pupils have to there their tools with other pupils and the trend seems to be sharing of tools in groups of 5 pupils. Only a few schools (11) keep the workshop open outside regular school hours. The time ranges from 10 misutes to 90 minutes. The percentage of students who make use of the facility of workshop being opened outside school hours ranges from 5 to 100, usual pattern seems to be that of 100.

Therappe of percentage of students who possess their own set of tools is a long one from 5 to 100. The twent is not clear from the replies received. The replies to the question of the percentage of students practising crift of home for pleasure is not clear. Range is again from 5 to 100. The usual pattern appears to be in the meighbourhoold of 50. A little more than 1/3rd of the schools are satisfied with the availability of text-books and reference material for craft work. About 1/3rd of the schools indicate that they have instructional materials in the form of craft designs. Much less schools have teachers file and material and only a few schools indicate that they have periodicals for this purpose.

Discossit

The more common mattern of disposal of craft prodata seems to be in the form of returning these to the pupils. A few schools cell them, some to the pupils and the staff, others to the public, a few by auction.

學出版問題可以不

Usually schools have one teacher for one craft. although in some schools one teacher teaches 2 crafts and g schools do not have any craft tracher.

Long than half of the schools indicate that the terchors in their schools have recorded institutional training in crafts. A little more than one third schools are entired with the stuff evallable for teaching of crafts. A large meter of schools (55) indicate that they experience difficulty in securing togehers who know thatr eritts woll and those the ere redacesteally trained. Untrained and unimalified artisans are employed only in 19 schrols.

It is not clear that qualifications are preserthad for the to chera who teach crofts in the secondary schools. From a few rapiles redelved in the questionraire there ser to be two trands, one having high school passed teachers with training or diploma and the other having trained Graduates for teaching of crafts.

The following institutions are mentioned as providing training facilities for teachers in craft:

- Industrial Training School, Silaspur.
- Joan-maing Training Institute, Indore. Cardening Training Institution, Infore. Kala Thetan, Jabalper. ***
- 3 .
- Vocational High Schools, Jabalpur (also at Mandra 6. and Raimm'.
- Government Basic Training College, Jabalpur. **6**,
- Krantiya Shikshan Mahavidyalaya, Jabalpur.
- Home Joien College, Jabalpur.

The usual grade of craft teachers appears to be h. 60-120. Some schools employ eraft teachers in the grade of M. 70-130; and one school has a teacher in the grade of M. 150-250. The usual pattern seems to be from M. 60-190.

Only a few schools (30) mention that craft teachers are accusing of with modern practices in teaching of crafts and less schools (14) say that the craft teachers particle pate in the community oraft activities.

RIVET STATE

Most of the schools assess the work of pupils by naintaining record of poull propers. A little more than 1/3rd schools avaluate creative ability and about 1/3rd schools a walunta quantitative termover. Only a few schools som to evaluate the technical competence of pupils.

The schools have internal assessment of craft work excepting a few. Usually there are three examinations in a year. Nost of the schools have both theoretical and practical papers. The time for theory paper ranges from

1) hower to 3 hower and the paximum parks from 25 to 100. The light there is only one reper. The time for prestical experiention veries from 1 to 3 hours and marks from 25 to 100. Is schools report that they hold viva voca examination and the time varies from 10 minutes to 30 minutes and marks from 10 to 100.

40 schools rention that the rooks obtained in orift are taken into consideration for promotion and 83 achools mention definitely that these are not considered for promotional purchase. The minimum repher of page murks very from 25% to 50%, usual pattern being 33%.

min min ate.

Promoting Craft Mork

Some schools report the following steps being taken to promote instructional work in orifts:

- 1. O'Coring of prizes.
- 2. Arranging of trips.
- 3. Organising the exhibitions.
- 4. Taking practical examination.
- 5. Propering wall things of daily use.
- 6. Encouraging competition.
 7. Organising demonstrations.
- 6. Organising visit; to craft contros.
- f. Providing extra classes.
- 10. Using 'play-way' method of teaching.

A gentions

The following suggestions are offered by the various schools to improve oract work in the schools. Mambers within brackets indicate the number of schools offering the suggestions.

- 1. Providing qualified and to ined teachers 31.
- ?. Providing more funds 30.
- 7. Providing nore material and equipment 14.
- 4. Providing teacher accommodation 13.
- 5. Providing more time for crafts 0.
 6. Increasing number of craft teachers 7.
- 7. Holding external examinations 4.
- A. Provision of rore crafts in the schools 4.

Croft follower in Museumdon Schools of

网络 化二酸 化二烷	وهد القاهر المراجعة والمام المراجعة ومواد وعاد والمامة		Trans.		legondi N		n pa wa Ligatificati Ligatification	i i i i i i i i i i i i i i i i i i i	ma ma ma ma physical processor	rotal
经制 化二甲基乙基 化二甲基甲基乙基	, 1440a 155	** • \$169- *****	Steel Steel Steel	医		** ** *	で (44) 年間	**** ***	AND THE TOP PAGE	似 相
Apt raing	4429	cial-		3	3	в	8	qu	d	26
"leg vi ng	## *	1944	NOTE:	Ą	*	r.	A	page .	Ą	24
Gardening	nespt	柳	1	Ą	4	15	Ü	峨 舞	S.	40
Tollowing	NOTE:	9609	tias		1	6	4		ar.	1.7
Men' Foot	1	ANI	N.	(1		7	4	柳	3	14
South	織	ate)	攻動		ey.	2	WAR .		@	8
Cardboard work	₩	####	AUSQUI	2	***		(4)	ca	動物	3
iread no	NAME OF THE OWNER, THE	神楽	ᅄ	4	撇	physical control of the control of t	轍	440	1	S.
Lanthan Jork	65	1900	繊	蟾蜍	1	SQA.	#FFF	25 66	489	1
abroidery	***	piane M	柳	AN	g.	1		upp.	****	10
Printing	標節	570	**	rigady	徽	1	1	SON	499	7
Tynina	1	esp.	鄉	**	学	1	中	649	(2)	
Ketal Cent	1	何		榔熱		***	瓣	ቀ	1988)	
General Ange.	1	237	₩	糊	聯發	髓子		RF.	atagata	2
Rpap MnMing	444	.23	asign	9	1	60		1	(100)	8
Glay Modelling	***	48		韓	7	AND	₩	1113 .	**	1

LARRAS

CRAPTS

Graft is a compulsory subject in almost all the school of Madras. However, there are 11 schools in the present sample which have indicated that the craft is taught as an optional subject in these schools. Graft is introduced in all the schools in grade 6, there was conjugated in grade 11 the schools in grade 6, there was conjugated in grade 5 and in another school in grade 3. The usual pattern of craft education is to have craft from 6th to 10th or 11th grade. But there are some variations and in some schools craft is taught only up to grade 8 and in other schools up to grade 9. There is one school in which craft is taught only in 6th or 7th grades.

Chiectives

The most accepted objective, endorsed by 55 schools, is inculcating dignity of labour. The next in acceptability appears to be enabling students to gain manipulative skills. This is endorsed by 51 schools. 47 acticals have endorsed the objectives of contributing to the leisure time activities of pupils and providing vocational outlet to them. The least accepted objective, endorsed by 13 schools is that of offering opportunity for guiled exploration and experimentation in practical situtations. The schools seem to be satisfied regarding the achievement of these objectives in the schools.

Crafts taught

The most popular craft in the secondary schools of Madras appears to be waving. 38 schools have this craft. Next in order of popularity is wood work followed by 36 schools and spinning followed by 20 schools and drawing (if this can be regarded as a craft) followed by 19 schools. The details of various crafts offered by different schools appear at the end.

As will be seen from the table there is no lifference in the crafts followed in high schools and multi-purpose schools. Sewing, tailoring and fibre craft are taught only in girls or mixed schools.

Almost all the schools provide only one craft. There are 13 schools which have sported that they have provision for each student to offer more than one craft, usually two crafts.

The most important reason mentioned by 59 schools for the students selecting a particular eraft is the provision of the craft in the school. The next important reason given by 31 schools is the aptitude of the students. The other reason vis., parents' choice, teachers choice or the craft being hereditary in the family are mentioned by only a few schools.

A little less than half of the schools mention that it is possible to change crafts in the secondary classes. Most of the schools mention that this change is possible in grade 9 while a few inform that this change is possible in grade 8.

Time deveted by one class to craft work in one week varies from 45 minutes to 17 hours. The usual trend seems to be the provison of one and a half hour for each class per week for craft work. The duration of the period varies from 40 minutes to 60 minutes, the usual practice, being to have a period of the duration of 45 minutes and in some cases of 40 minutes. 50 schools mention that the period is of sufficient length for craft work.

Gurriculum

Quite a large number of schools (66) mention that the craft curriculum stresses the creative aspects of craft. Quite a large number of schools (67) are of the opinion that the contents of the craft curriculum include manipulative skill. 64 schools feel that the craft curriculum includes application of craft in faily life. Only 47 and 45 schools respectively are of the cpinion that the craft curriculum includes scientific basis of the craft and study of the economics of the craft.

Schools do not seem to be well satisfied with the injegration of the curriculum with other activities. 57 schools feel that the craft curriculum is integrated with home and community experiences. The number of schools with the opinion that it is integrated with co-curricular activities is 42 and of those who feel that it is integrated with other subject areas it is 31. 54 schools express the opinion that the craft curriculum is stimulating for pupils and prepares them for craft pursuits beyond the secondary school education. Only 22 schools conduct trips to places that are of interest from the point of view of craft education.

PHISICAL PACILITIES

Aggemedation

The answers to the question about the size of craft class are vague as for any other states. The enclment mentioned by some schools in the craft class varies from 34 to 50. The usual number of students being 40. The size of the class room varies from 750 sq. ft. to 1250 sq.ft. The usual size seems to be in the neighbourhood of 500 sq.ft. 41 schools are of the opinion that this size is commensurate with the nature of the work dome.

59 schools have separate room set up for purposes of craft classes. The majority of these schools felt that the room has adequate space and that it is well-lighted and suitable from other points of view. 46 schools report that they have adequate facilities for storing craft

products prepared by students and other materials and supplies.

A large number of schools (61) report that they have adequate supply of raw-material. Equally large number of schools (55) have adequate supply of tools. Schools seem to be less satisfied about other working facilities like benches (39), tables (30), easils (34), show-cases (19) and display boards (34). Almost all the schools mention that the materials supplied are being efficiently used.

Almost all the schools report that reveaterials are available to pupils in time.

In most of the schools pupils work both in groups and individually. Only 24 schools however, mention that they provide individual tools to pupils. In most of the schools pupils have to share tools and the number with whom they have to share varies from 1 to 18, the usual practice, beging 5 or 6.

Only 12 schools report that they keep the workshop open for pupils outside regular school hours. Only a few schools have mentioned the percentage of students utilising this facility. This seems to be 10%.

The schools do not seem to be satisfied with the instructional materials provided to them for craft work. Al schools report that they have provision for eraft models and charts. A little more than 1/3rd of the schools report supply of reference materials, teachers' file of materials and pupils collection of craft designs. Only a few schools have periodicals or text-books available.

Diancanl

The usual practice adopted by the schools of Madras for disposing of craft products prepared by students is through sales. 34 schools report that they auction the material. M schools sell the material to the public while 8 schools well then to staff and others. 9 schools report that they return the material to the pupils. Only one school has mentioned that the material is stored.

TEACHERS

Most of the schools have only one teacher for teacher for one craft. Some schools have one teacher for two orafts and in a few schools one teacher teaches 3 crafts. There are a few schools which have two teachers or 3 teachers.

33 schools mention that the staff for various crafts is adequate. A large number of schools (69) mention that the craft teachers in their schools have received institutional training.

in securing craft teachers who know their subjects satisfracturity (37) or those who are pedagogically trained (35).

Only a few scheels (6) utilise untrained and unqualified artisans for teaching of crafts in the scheels.

The following institutions provide training facilities for crafts in the schools:

- (1) Lady Willington Institute for Craft, Madras.
- (2) Government Teachers' College, Madres.
- (3) Government Technical Institute at Coimbatore, Mairas and Venaspet.
- (4) Textile Institute, Madras.
- (5) Arts & Crafts School, Kumbakenar.
- (6) Government Textile Institute, Coimbatore,
- (7) Harijan Industrial Institute, Videnlaklam.

From the information available it aspears that the usual grade of craft teachers is Rs.50-90. There are many variations. Some schools have craft teachers in the grade of 60-100 and some from 41 to 80. There are schools which have teachers in the grade of Rs.90-140. There are other variations also. But on the whole the grade in most of the schools seems to be from Rs.50-90. 50 schools have indicated that the teachers follow actions practices of teaching. However, only 17 schools are of the opinion that teachers participate in community eraft activities.

EVALUATION

42 schools report that they maintain record of pupil progress for purposes of evaluation. 46 schools mention that they evaluate quantitative turacver. 23 and 25 schools respectively evaluate creative ability and technical crapetence.

nations in craft. However, not of the schools have scae way of having assessant of the craft work. Mostly craft is assessed by internal assessment. Those schools which hold examinations usually have three examinations in a year. The usual pattern is to have one theory and one practical paper. The theory paper varies from one hour to 2s hours with marks 35 to 100. Practical examination is held from s an hour to 3 hours and carried marks from 35 to 100. The minimum percentage of pass marks in the majority of schools is 35, the variation being from 25 to 40. Most of the schools do not take craft marks into consideration for purposes of promotion. Only two schools have mentioned that the marks are taken into consideration.

SUNGESTIONS ERG.

Premerance areas inches

The following steps have been reported by various

schools taken to promote eraft work in the schools:

- (a) Helding of embilitions;
- (b) Providing prises for craft works
- (c) Arranging competitions;
- (4) Stressing preparation of articles of daily use.

Surgestions.

The following suggestions are offered by the various schools to proacts teaching of craft:-

- (1) Alegante equipment to be provided (8).
- (2) Mere periods for crafts to be allotted (9).
- (3) Alequate finance to he made available (8).
- (4) Variety of crafts to be introduced (9).
- (5) Craft to form as a part of examination subjects (6).
- (6) Teacher supil ratio to be reduced (7).
- (7) Craft to be made compulsory (5).
- (3) Adequate accommendation to be provided (5).
- (9) Trained teachers to be provided (4).
- (10) Draft attendant to be given to teachers (3).

Crafts followed in the secondary Schools

Crafts	4.1 24		ر ، و حمل مثلاً ا	Nulti Boys d			
lylaning	6		4	2	A STATE OF THE STA	8	20
Weaving	11	3	11	·, 3	聯	12	38
Bock-binding		42	3		*	1	8
Gariening		1	8	1		8	14
Woed work	8	6	4	5	***	9	26
Drawing	4	5	4	1	1	4	19
Paper verk			e#s	4	with	1.	3
Rattan(cane) werk	1	424	**	688		400	
Reae erafts			1		2		8
Nusie	1	2	8	縪	1	1.	7
Rabreliery (needle work)		&	4	469		4	16
Fibre crafts	##	1	69	*66	4		1
Tapo making			1	*	***	***	1
Cardboard work	*	460	1		400	1	
Pottery	**	**	1	#	WANTS.	1	
Agriculture		1653	1			2	4
Tailoring	**	ቀ	•	49	1	3	
Swing	*	•	*		1		2

MAHARARE RA

CRAIMS

In the State of Maharashtra, craft is a compulsory subject in the seem lary schools usually for chasses V to VII. Sees schools have crafts only in classes V and VI, while scar others have in classes VI and VII. A few schools provide crafts on a compulsory basis in classes VIII, IX and X also. Sees higher seemlary schools have this provision up to 9th class. The usual pattern seems to be of providing crafts for classes V to VII. Only one school has reported that craft is provided on an optional basis; in all other schools crafts seems to be a compulsory subject.

Chicatives

All the ten objectives mentioned in the questionnairs have been ticked by the majority of schools. The most accepted objectives seem to be inculcating dignity of labour (42 cut of 51 responses have accepted this); enabling pupils to gain manipulative skills (41); providing vocational cutlet for pupils (41); and contributing to leisure time activities of pupils (40). The least accepted objectives seems to be the opportunity crafts provides for exploration of providing ability also seems to be less accepted (22).

Most of the responses to the question to what extent these objectives are being achieved indicate that the chjectives are being fulfilled only to some extent. Some responses indicate satisfaction in achievement of the objectives.

Crafta taught

Spinning and Weaving are offered in most of the schools of Mahrashtra, followed by word-work, tailoring and cari-board work. Paper-making is also one of the popular crafts. In the dirls' schools and mixed schools sewing and embroilery are popular. The attached table gives the details of the crafts practised in the schools of Maharashtra. As will be seen, the crafts practised are: spinning, weaving, clay-modelling, word work, tailoring, book -binding, caribboard work, paper making, gardening, sewing, agriculture, embroidery, metal craft, drawing, home crafts, technical subjects and scap-making.

There does not seem to be much difference in the crafts followed in high schools and multi-purpose schools. Metal craft is practised only by one multipurpose school. Similarly scap-making is practised by one higher secondary school.

All the schools provide only one craft to the students at a time. The majority of the students choose the craft because it is provided for in the school. Only 17 mehools have mentioned that the crafts are provided according to the aptitude of the pupils and only a few schools have

mentioned the factor of teachers' choice and hereditary craft as being important in determining the choice of the pupils.

Most of the schools mention that it is not possible to change the erafts in the secondary stage. Coly 19 schools mention such a possibility. Not of these schools mention that the change is possible in the class VIII while 2 schools mention the possibility in the class 9 and one school mentions 7th class as the graie in which this change is possible. The replies to the question as to how many hours are devoted to craft teaching are not very clear. Some schools some to have given figures for all the classes and most of the schools seem to have mentioned the figures for one class only. The trend seems to be of devoting between 1s hours to 3 hours per week for a class for craft teaching. The period is usually of 35 or 40 minutes duration. Most of the schools (46) feel that the time alletted for craft work is sufficient.

Curriculum

Most of the schools (50) feel that the curriculum stresses the creative aspects of craft. Most of the schools also feel that the cirriculum followed in their schools is integrated with home and community experiences, although only some schools (26) feel that craft curriculum is integrated with other subject areas and that it is integrated with oc-curricular activities.

Almost all the schools (56) indicate that the contents of craft curriculum have sufficient application in daily life. The majority of the schools (46) feel that the contents of the curriculum include manipulative skills. Some schools indicate that the curriculum includes study of encacales of the craft and the scientific basis of the craft.

41 schools out of 61 indicate that the curriculum stimulates interest in the pupils and prepares them for craft pursuits beyond the secondary school.

With regard to the utilisation of field trips in teaching of crafts, only a few schools (13) mention that this is being done.

BUYSICAL PACIFICAL

Ageconcintica

The average size of the class-room used for craft purposes seem to be 500 sq.ft. Various sizes have been indicated and the range seems to be from 200 sq.ft. to 2400 sq.ft. Nest of the schools (42) feel that this accessication is sufficient for the craft work.

In most of the schools there is a separate recu provided for the craft work and this recu seems to be well lighted and quite suitable (53 out of 61 feet this).

42 schools have adequate provision for storing pupils hand-work, general actual and supplies.

Parl mont

oated to be alequate by 50 schools while 30 feel that work beaches are sufficient, 36 indicate tables being sufficient. The majority of the schools feel that they have sufficient tools to work with. Show-cases and dispaly-boards are not found to be in sufficient number by many schools.

Almost all the schools indicate that the materials and equipment and to them are being sufficiently used. Most of the the land (17) are satisfied that rew-materials are made available to the pupils in time.

In most of the schools students work individually and about half of the schools provide each student with his own seat of tools. The schools which mention that the student has to share tools with other students indicate that he has to share with three or four students. Only one schools has mentioned that the student has to share with 35 students. The resty to the question what percentage of students present tools at home in quite vague and does not give much information.

Chly a few schools keep the workshop open outsile resular school hours. Such schools mention that about 25% striants utilise this provision.

of the instructional materials provided, for craft work, about half of the schools have provision for craft acids and charts and material for teach rs. The text-books for crafts are provided only in a few schools (19). Similarly periodicals are provided by only a few schools (11). Some secolar (27) have pupils collection of designs and materials and some have reference materials available for the use of the teachers.

Disnosal

produced by the pupils are returned to them. 13 schools sall the articles to the public and only a few schools sell them to the pupils (5) or acution them (4) or keep them in the schools (3). On the whole, there seems to be lack of attention being paid to the problem of dispessi of craft products.

TRACHERS

Host of the schorls have only one teacher for one craft and in many cases one teacher teacher two crafts and in one case 3 crafts. Some schools have three teachers and a few have two teachers.

47 schools indicate that the teachers have received institutional training in orafts. It is not clear whether this reference to the training is to the professional educations at training provided in a Basic training institution or whether

this indicates a separate professional eraft training. Absent half of the schools mention that they experience difficulty in securing eraft teachers who know their subjects satisfactorily. 36 schools feel difficulty in securing erafts teachers who are pedagogically trained. Only lischeds use untrained and unqualified artisans for the teaching of crafts.

The majority of the schools (51) feel that the staff given is adequate.

It is not clear what qualifications are prescribed by the State for craft teachers. On the whole the craft teachers in the schools of Maharashtra have diploma in crafts. Scae of them are Basic trained at Wartha. In some schools the craft teachers are Matric pass.

The following institutions provide training for eraft teachers in the State:

- (1) Handi-orafts School Akela.
- (3) Industrial Training Institute Amravati.
- (3) Government Basic Training College Amravati.
- (4) Hanilorafts Teachers Training College Bombay.
- (5) J.J. School of Arts Bombay.
- (6) Elphinstone Technical High School Bombay.
- (7) Government Industrial Training Institute Nagpur-
- (3) Cottage Industries Training School Magpur.
- (P) Vocational High School Wagpur.
- (10) Khadi Gramudyog Mahavidyalaya Masik.
- (11) Industrial Training Institute Cudh.
- (13) Institute of Medern Art Poona.
- (13) Khadi Gramudyoga Mahavidyalaya Wariha.
- (14) Bhartiya Kala Prsarani Sabha.
- (15) Buldama Scheel of Carpentry.

Most of the schools pay eraft teachers in the grade of 5.72-150. The grades range from 8.50-80 to 8-110-200.

37 schools mention that the craft teachers follow accors way of teaching, while 13 mention that they follow traditional methods. Very few institutes have mentioned that the craft teachers participate in the community craft activities.

EVALUATION

In most of the schools assessment in crafts is done through internal assessment. Almost all the schools mention that they hold examinations in craft. Most of the schools have examinations twice a year while some have thrice a year. Only a few hold either once a year or four times a year.

39 schools mention that the marks obtained in the craft are taken into consideration for promotion of pupils. The minimum pass warks range from 33 to 35%.

The general pattern of the examinations seems to be one paper of theory carrying 50 marks of the duration of one and a half hours and similar one paper in practical.

47 schools indicate the progress of the pupils is evaluated by maintaining records of the progress of pupils. About helf of the institution mention that creative abilities of the pupils are also evaluated and equally helf it schools mention that they evaluate the quantitative turnover of craft work by the pupils. Only a few institutions evaluate the technical ecapetence of the pupils.

STRUKSTIC VID LING.

Special features

Colr a few schools have mentioned ects apprion features of craft education. There are the Followit:

- (1) Papils have wen many prizes in the craft policities.
- (11) Craft is taken up by some pupils as a hebby.
- (111) Pupils prepared their own garments after school hours.

Premeting agait work

The following steps are reported to 'e taken by the various schools to premote craft work in the institutions:

- (1) Exhibition of work.
- (ii) Encouraging competition.
- (111) Extra eraft work for interested pupils.
- (iv) Stressing both theory and practice.
- (v) Encouraging working of pupils during leisure bime.
- (vi) Providing good tools.
- (vii) Organising pupils in groups.

- (viii) Providing freedem to pupils to adjust.
- (1x) Crganising vocational classes during long vacation.
- (x) Propagating.
- (x1) Awarding prizes.
- (xii) Supplying material free to the poor pupils.
- (xiii) Proparing articles of daily use.
- (xiv) Providing material to pupils.
- (xv) Crganising hobby clubs.
- (xv1) Solling articles to the pupils at nominal cost.

Suggestiem

The following suggestions are offered by the various schools to improve craft work. Number of schools offering the suggestions are indicated in the brackets:-

- (1) Sufficient funds should be provided for eraft (14)
- (11) Trained craft teachers should be provided (10)
- (111) Proper material and equipment should be provided (9)
- (1v) Adequate accommodation for craft work should be provided (7)
- (v) Craft should be made an additional subjects (4)
- (vi) Pupil-teacher ratic should be reduced (4)
- (vii) Definition of syllabus should be provided both in theory and practice (4)
- (viii) Craft should continue as a subject in the college ocurses (3)

287

The state of the s

		•		The state of	i signisiku. Lig	.ighra				
Spining	**	蝴	8	69	***	2	2	1	5	17
Woaving		100	5	#	(4)	1	2	1	4	14
Clay Mcdelling	1	磁器	瓣	dto	(1		*	*	2
Weed work	2	49	6	633	444	©	1	60	5	14
Tallering	1	1	11	69		蝴	•	建	2	15
Book Binding	4	ቁ	4	1993	***	æ	630	***	GP	* 8
Card Beard Work	6	*	7	©		43	₩	(40)	489	13
Paper Waking .	4		3	標準	*	1		***	2	11
Gardening	(49)	@	1	#	**	***	1	1	8	6
Soulng	健 學	8	6		(SP)			2	1	15
Agriculture	1	相關	柳	₩	*		100	*	<i>1</i> 274	1
Ambreidery (needle werk)	鏬	5	2	\$5		#	**	2	2	11
Notal Craft	***	#	nja-	**	#	***	***	æ	1	1
Drawing	1	*	1	磁車	400	**	4	(1)	40	
Nome Crafts		63	1	'elle	479	****	450	静	pino)	3
Technical Subject		创 章	1	859	\$	***	***	*	***	1
Soap Making	•	*	969	**	#	1	~	聯	¢ a	1

M X A A R R

CRA TO

Almost all the setchiary schools of Mysore have craft as a crapulsory subject. A few schools have indicated that craft is both prapulsory and an optional subject. Generally craft is introduced in the 9th grade and samy schools have indicated that it is taught only in the 9th grade. Some schools indicate that it is taught in grades 8 to 11. (no school mentions that craft is taught in grades 6 to 7 and a few schools have in grades 6 to 10 or 11.

Chicativa

The most accepted objectives of craft teaching in the schools of Mysora appear to be providing vocational cutlet to pupils and inculating lightly of labour. Both the objectives have been endorsed by 56 schools. Next in acceptance are objectives of exploring the aptitudes and interests of pupils and contribution to the leisure time activities of pupils. The least accepted objective, endorsed by 90 schools appears to be that of offering opportunity for guided exploration and experimentation, in practical situations. The schools vary in their feeling about the fulfilment of these objectives. Mostly the schools feel that the objectives are being fulfilled to a good extent.

Creatis tourist

The most popular craft in the schools of Mysers appears to be tailoring which is taught in 39 schools. Next in popularity is agriculture which includes nextly horticulture and define allowation. There are other crafts a list of which, along which are not schools fellowing these crafts, appears in the braids of schools fellowing these crafts, appears in the braids of schools fellowing and music have also been antifered to strike. As may be evident embroidary hase craft, music are practised only in the girls or mixed schools. Strangely enough spinning and weaving are not found only in boys schools are woodwork, printing, clay according and paper work.

The schools provide only one craft excepting a few who have provision for two erafts and one school provides 3 erafts.

Most of the schools indicate clearly that the craft is selected by the students mainly because it is provided in the school. This is expressed by 53 schools. The other important reason given by 23 schools is the students' aptitude. The other reasons are mentioned only by a few schools vis., choice by teachers or parents or the craft being hereditary in the family.

Only a small number of schools (23) mention that it is possible to change the craft during the high school. Most of these schools mention 9th class as the grade in which

change is possible. Some schools mention that the change is possible in the Sth graie.

Hours devotod to craft work per week for one class vary from § to 6. The main trand seems to be to devote 3 hours per week for craft work in one class. The length of the period is mostly 45 minutes, although there are some schools having periods of 40 minutes duration. Most of the schools feel that the period is of sufficient length.

Currianism.

Most of the schools feel that the curriculum contains mat or having application of the craft in daily life. This is enlored by 69 schools. 65 schools feel that it contains contant having reference to manipulative skill. 49 and 45 schools respectively express that the curriculum contains study of the scientific basis of the craft and of the econcaics of the craft.

58 schools are of the opinion that the craft curriculum is integrated with home and community experiences 42 feel that it is integrated with ec-curricular and with the and culy 34 feel that it has integration with other subject areas. A large number of schools (61) feel that the curriculum stresses the creative aspect of crafts. 50 schools feel that it stimulates interests in the pupils to carry them beyond secondary school experience. Compared to other States, quite a large number of schools from the point of view of craft clucation.

PHYSICAL POSICITIES

Agreemeistica

The question asking about the size of the craft class has been differently interpreted by different schools. Some schools, as in other States interpret this as the size of correlatent while others interpret it as the size of the rocs. The number of students in the class roca varies from 20 to 60. The size of the graft class seems to vary from 150 sq.ft. to 1,200 sq.ft. The figures do not give any indication of the usual size of the class roca.

Cmy a small number of schools (39) have separate rorms set apart for eraft classes. Nost of these schools indicate that the rock provides adequate space and that it well lighted and otherwise suitable.

Cnly 33 schools report that they have adequate storage facilities available for keeping eraft products made by students.

Kanilyasat

A large number of schools (41) have adequate favmaterial available to them. Tools are also available to a large number of schools (43). Other facilities are not available to many schools like work benches (20), tables (33), easels (23), showeases (13) and display boards (13). Heat of

the schools indicate that the reventerial and equipment received are efficiently used. 49 schools report that rew-materials are made evailable to pupils in time.

The scheels have both individual and group instruction in crafts. Many scheels report that they have both types of approach. Only a few scheels report that they provide separate tools to individual pupils. The number of students with whom an individual has to share tools varies from 3 to 15. The trend somms to be sharing tools with about 4 persons.

Culy a very few schools keep workshop open after school hours and the persentage of students utilising this facility seems to be round (10).

Schools is not seem to be satisfied with the instructional materials available to hem. 33 schools indicate that they have text-broks and 39 schools have craft acidls and charts. Only 17 schools indicate the they have periodicals available for craft work.

Managal

The smal method of disposal of craft products in the schools of Mysere is that of returning the products to the pupils. Not many schools have given this information, but of those who have replied, a large number of schools indicate this practice. Craft products are also auctioned or sold.

As in case of other States most of the schools have one teacher for one craft. There are however, some schools which have no craft teachers and some schools have teachers for one craft but not for other. I schools indicate that they have two teachers for one craft and one school has three teachers.

46 schools indicate that the staff for eraft work is adequate. 42 schools report that the teachers with them have received institutional training in crafts.

A large number of schools report that they experience difficulty in securing craft teachers who know their subjects satisfactorily (50) and who are pedagogically trained (53). Only a few (13) schools use untrained and unqualified artisans for teaching of oraft.

The following institutions provide eraft training in the State.

- (1) Erishan Rajondar Silver Jubilee Technological Institute. Bangalore.
- (2) Agricultural Colleges at Bangalere, Dharvar and Behhal.
- (3) Government Basic Training Centres.
- (4) Department of Industries & Commerce.

- (5) Department of Morticulture.
- (6) Polytechnic institutions.

The graie of pay given to oraft teachers varie. The usual graie appears to be N.SO-130. This grade has scall variations. Scale schools start from 60 and scale schools initeate that it emis at 100. (ne school has mentioned that the craft teachers is paid in the grade of 150 to 250 and ancthor 75-150.

36 schools indicate that their teachers follow actern techniques of craft teaching. Only 15 schools report that the craft teachers participate in community graft activitios.

EVAL TATELY

Large number of schools (39) maintain recert of pupil progress. 23 schools report that they evaluate quantitative turnever and ereative ability.

It appears that most of the schools hold an exactnation in crafts. 8 schools have indicated that they do not hold any executation and that the general impression of the day-to-day class work is considered. Mostly the schools take recurse to internal assessment. The usual pottern seems to be having two examinations in a year both in the ry and practical. A few schools give examinations only in theory. The time for theoretical paper ranges from 1 to 3 hours and the marks from 25 to 100 while the time for practical examinations ranges from \$ to 3 hours and marks from 35 to 100. A few (7) schools hold examinations in W.Vo. 7020. In their case the maximum marks range from 15 to To the regulations appears to be to have 35% to 50%.

27 schools indicate that they take the marks chtained in eraft into consideration for purposes of promotion while 13 schools indicate clearly that they do not ernation craft marks for proaction.

STANESTICNS ENG.

Preacting aroft Work

The following special features have been reported by seme scheels. These are reported as at ps taken to promote ereft work in the scheels.

- Organising ecapetitions; Organising lectures;
- Arranging visits;
- (c) (d) (d) (e) (f) Holding exhibitions: Holding film shows;
- Mnocuraging students with special talents;
 - Giving rewards and scholarships.

Succestions

The following suggestions have been offered by various schools in order to premote craft work:-

- (1) Irained and qualified staff to be provided (17).
- (?) Adequate remembered and equipment to be provided (1?)
- (3) More accemedation may be given including separate roca for orafts (13).
- (4) Separate craft temphore may be provided (10).
- (5) Reference broke on craft to be provided (5).
- (6) Teacher-pupil ratio to be reduced (4).
- (7) Mora grants to be given (3).
- (9) More crafts to be introduced (4).
- (9) Assistance to be provided for craft (4).
- (10) More time to be devoted to crafts (2).
- (11) Syllabus to be improved (3).

Crafti followed in the Secondary Schools
of MISCAN

Craft	M.A	W.	ch.	H.ch	ez Sa	V.	7 1/11		Ç.	Ictal
Spinning	1	•	4	1	4	1		(20)		8
Hoard no	9	dia dia	49	60	444	I	100	4	1	8
Aericulturo*	400	3		3	•	5	3	1	8	31
Mabridary (Westle work)	**	10	5	(4)	2		TOP	8		31
Tallering	2	10	13	8	1	3	•	1	4	39
Wood work	2	(550)	3	3	931	1,		400	4	13
Tochnical (acstly										.264
electric wire	*	40	3	2	(2)	1	•	4	•	Ğ
8027100)										TE AND
Cortent 3	1	1	5	1	•	l	₩	1	***	10
Homo graft	邮	•	1	Ø	100	1	4	1		4
Ratton work		69		2	49	4	(4)		#	3
Typing	***	40		1,	444	1	66	4	4	3
Printing	1	**	1	***	6	Ī	1	(23)	\$	*
Boo keeping	*	Will	3	•		1	553	659	1000	49) 49)
Photography	90)	92	eto -	4	400	2	明 維	(69)	60	<i>2</i>) #3.
Mbro eraft	•	*	1	***	(3)	4000 200	1		*	<i>⊊</i>
scap making	@		**	1	(MIX)	1	100	***	1	\$# #
Mahorf	*	(4)	1	\$		@	1		2	70
Dronatios		2	121	3	解節	8		1	63 co	4.7
Clay modelling	1	40		400	400	4	69	6000 6000	1	1
Pottory	60	400	***	(4)		600	1		esta-	å
drawling	1	2	3	100	•	435		**	1	1
Top making	幯	翻	*		1		***	67	*	42231316142
Nusio	\$	1	1	49		1	165	entire entire	anda	2
Papar werk	1	40	100) 101	49	***		40	nganer setta	### ###	1
Card board werk	4		1	1		1	1	-485-	eits	1.4
Book himiing	dis	***	1	T.	•	4	-व्यक्त	Ada	year .	4R

^{*}Agriculture includes mostly horticulture and coffee plantation.

LRIBBA

GRA TS

Responses have been recrived only from high and higher secondary schools.

Oraft is a compulsory s-ubject in all schools except 3 schools which mention that they provide craft on an optional basis. Usually craft is taught in classes 5 to 10 or 5 to 11. A few schools, however, have craft in classes 5 to 9.

Chicatives.

Cf the ten objectives mentioned in the questionmairs the most acceptable seems to be the contribution
of the craft to the leisure time activities of pupils.
This is enforced by 19 schools. This is followed by the
provision of vocational outlet to pupils and inculcating
dignity of labour. Equally important is the objective
that crafts help pupils become better persons in home
by cultivating in them skills for minor repairs. The
least acceptable objectives seem to be the provision
of experimentation in practical
situations and provision of specialised experience to
help them develop their skills in a better way.

To the question to what extent these objectives are being fulfilled acst of the schools have given no reply. Some schools mention that is very difficult to say for various reasons, mainly because craft has been introduced as compulsory subject only recently. Some schools have indicated great actisfaction while others are satisfied only to some extent.

Grafta taucht

The most popular craft in the schools of Crissa seems to be tailoring followed by wood-work and gardening. The other crafts offered are spinning, weaving, subscidery, paper work, technical crafts, home crafts, sewing and steno-typing. Only one school offers steno-typing and it is a higher secondary school. All other crafts are offered by both high schools and higher secondary schools. Embroidery, home crafts and sewing are offered only by girls. The emclosed table giving figures of the crafts offered in the schools of Orissa may be seen for details.

All the schools provide one craft only, excepting 5 schools which have provision for two crafts. Almost all the schools mention that the students select a particular craft only because this is being provided in the school. Only 6 schools mention that the pupils choose crafts being influenced by teachers choice. The number of schools giving other reasons vis., influence of parents choice pupils aptitude, craft being hereditary in the featly and schools mention that it is not possible to change orafts

in the high school, only 7 schools mention the provision of such a change. Of these schools two mention the change being possible in grade 9 and one each in the lowest the YLET grades.

Most of the schools seem to be leveting 18 hours to craft teaching. Some replies are vague as these do not make clear for how many classes the figures are mentioned. On the whole the range seems to be from 1 hours to 2 hours. The craft period generally is of the duration of 30 minutes. However, some schools have periods of 45 minutes. Almost half of the schools are satisfied with the length of the craft periods.

Gurrlaulum

Alacat all the schools (21) in Crissa seem to be satisfied that the curriculum in crafts includes enough material bearing on the application of the craft in faily life. About half of the schools feel that curriculum contents is related to manipulative skill and loss schools are satisfied regarding the inclusion in the curriculum of the content related to the study of the secnomics of the craft and the scientific basis of the graft.

16 schools out of 34 feel that the craft curriculum is integrated with the home and occanuity experiences. About half of the schools mention that their curriculum is integrated with oc-curricular activities. However, only a few schools feel that it is integrated with other subject areas in the programmes of State. More than half of the schools feel that the curriculum in crafts stresses the creative aspect of crafts taught. The Amequal member of schools feel that the surriculum stimulates interest in the pupils and prepares them for craft pursuits beyond the secondary schools.

Unly two schools out of 24 indicate that field trips are conducted to places of interest for craft education.

PRESENTAL PARTIETIES

. Accomeintion

The size of the class-room used for exaft purposes seems to vary from 200 sq.ft. to 500 sq.ft. The usually size seems to be about 400 sq.ft. More than half of the schools feel that the accommodation previded is suitable for the nature of the work to be done.

Most of the schools have a separate room for conducting classes in crafts. Helf of the schools are satisfied with the space provided for this purpose. The majority of the schools feel that the room provided is well lighted and suitable from other considerations.

More than half of the schools have adequate storage facilities for keeping finished products prepared by pupils

and general materials and supplies of crafts.

Egill mant

More than half of the schools seem to be satisfied with the adequate Sacilities available in the form of tools and in the form of tools and in the form of the schools report having adequate working benches. Less schools are satisfied with easils supplied to them and still less schools with show cases and display boards. As far raw-material more than half of the schools feel that they have adequate supply of raw-material.

Almost all the schools mention that the materials and equipments supplied are adequately used. Most of the schools are also satisfied that raw-materials are made available to pupils in time.

Most of the schools provide equipment to groups of pupils — only a few schools have provision for tools for individual pupils. Usually five students seem to share tools; 2 schools mention that this number is 10 while there are schools in which this number is only 3 and 2. Only 7 schools mention that each student has its own set of tools. The percentage of student possessing tools at home varies from 5 to 60. 15 to 20 seems to be the usual figure.

Only a few schools have provision of opening workshop outside school hours. The percentage of students utilising this provision seems to vary from 5 to 50.

Less than half of the schools are provided with craft moiels and charts and much less schools report provision of text-books and teachers file of materials and reference material. Only one school reports that it has provision of periodicals on crafts.

Manoael.

About half of the schools dispose craft products by selling them. 3 schools mention that these are returned to pupils while 3 other schools mention that they are kept in the school for exhibiting them.

TEACHERS

All the schools report that they have provision of one teacher for one craft. More than half of the schools same to be satisfied with the staff provided.

Most of the schools report that teachers provided have had institutional training in crafts. However, more than half of the schools mention that they experience difficulty in securing craft teachers who know that r subjects satisfactorily and those who are pedagogically trained. Only 5 out of 24 schools use untrained and unqualified artisans for the teaching of crafts in the schools.

Most of the schools have not mentioned anything about the prescribel qualifications of the craft teachers. It seems that Matric pass teachers trained in a particular craft are supleyed in the schools.

The usual graie in which the teachers are paid seems to be Rs.50-90. Come school employes a teacher in the graie of Rs.120-250 and mother in the graie of Rs.50-50.

The following institutions provide training in oracts.

- (1) Institutions at Angul Bahrampur, Balanjir, Warsinghpur, Nayatarh, Sumbalpur, Sundargarh and Phochbund.
- (2) Sowing Tailoring Institute, Puri.
- (3) Peer Cettage Industries, Cuttack.
- (4) Orissa School of Engineering.
- (5) Arishi Maha Vidyalaya, Bhubneshwar.
- (5) Craft Tailering Centre, Mayurbhanj.

About half of the schools mention that the teachers follow molern practices in teaching crafts in the schools. Only 3 schools mention that the craft teachers participate in economity craft activities.

RVALTAPICH

Half of the schools mention that pupil progress is evaluated by maintaining a record of their progress and by evaluating technical ecapetence of students. Less than half of the schools assess students' progress by evaluating creative ability or the quantitative turnover in crafts.

More than half of the schools have provision of internal assessment. There are only two schools which a ontion that they have external assessment programmes and 4 schools have both internal and external assessment.

In the majority of the schools examinations are held in craft, usually twice a year, only 3 schools have provision of one examination in a year. The usual pattern of examination seems to be assessing theory and practical aspects of craft work. The usual pattern appears to be having one paper for theory examination (the duration ranges from a an hours to 2 hours) carrying masks from 20 to 50. There is also practical examination and the duration ranges from a an hour to 3 hours and the marks assigned range from 30 to 100. Only 3 schools held rive your examination.

The minimum percentage of marks acceptable for a pass som to be 30. Craft does not seem to be considered acceptable for promotion. 17 schools cut of 34 acceptable for promotion, in arafts are not considered for promotion; only 5 schools consider these for promotional purposes.

OTROPOTICES SIG.

Prencting and work

The following have been reported by a few schools as steps taken to proacte craft work in the schools:-

(1) Giving prises.

(2) Holding exhibitions.

(3) Proparing articles of daily use.

Angentions.

The following suggestions are offered by the various achorls to improve craft work in the schools. Number of achorls offering a particular suggestion are given in the brackets.

- (1) Trained craft teachers may be provided (3).
- (2) Here grants should be provided (6).
- (3) More equipment and material may be given (5).
- (4) Adequate accommodation may be provided (4).
- (5) More crafts may be introduced (4).
- (6) Nore time should begiven for oracts (43)
- (7) Crafts should be made compulsory (2).

299

The state of the s

	Maide Applied States of the States	(Company of High and the								网络圆线
lang of the Croft	爾魯爾	h ₃	gan de	,			<u>acriary</u>		Zetel.	
· · · · · · · · · · · · · · · · · · ·	60	柳 降		第	P 49 49	60 60 6		(a) (a)	* * * *	48
Spinning		CO			1988	SP	*		3	
Weaving	ita.	60	1		100	T			1	
Tailcring	3	6 52	5		1000		1		9.	
Tech. Crafts (Sub)	1	63	60		44	***			. 2	
Embreliery	(4)	1	1		163	1	₩		3	
Word Work	1	(4)	2		1	@	2		8	
Gardening		40	3		(49)	***	糖各		4	
Paper Work	***	#	1		, <i>m</i>	**	459		2	
Home Crafts	60				60	**	dillo	•		
Sewing	櫛	***	1		*	1	磁体			
Stenc-Typing	73	65	69		1				1	

RALAGIRAR

GUAPPA

All types of secondary schools have craft in their syllabus. Usually the craft is introduced in classes 8 to 9 in high schools and 8 to 11 in higher secondary and sulti-purpose schools. A few schools seem to start crafts in the 7th and 9th classes.

Chicatives

The verices objectives for teaching of craft are those which are mentioned in in the constituents of vis., (a) destribition to the leigner time netivities of compiles (b) error its gain manipulative skills; (d) Incompiles them to gain manipulative skills; (d) Incompiles (f) Improving their appreciation of craft products; (g) Providing them confidence to use inexpensive and iccally available material; (h) Providing opportunity for exploration and experiementation; (i) Providing experience to develop skills and abilities; (j) Dev Novice of the case-hold repairs, etc.

Out of 33 responses received the distribution of frequency for the various objectives is more or less the same. The highest frequency is for objective'd' (27) and the lowest for objective 'h' (15).

Most of the institutions are satisfied that the chjectives they have ticked are being fulfilled well. There is only one case in which it is mentioned that the objectives are not fulfilled at all. Some responses mention that the objectives are being fulfilled to some extent.

Gratta taudit

The crafts introduced in the schools are agriculture, book-binding, card-board work, clay-actelling, dyeing, gardening, seneral engineering, metal craft, music, paper making, sewing, spinning, stenctyping, tailcring, weaving and wood work. General engineering emisstal craft are found only in the multi-purpose schools. Wood work and stenc-typing are introduced in some higher secondary schools.

The main reason for the selection of crafts by the students seems to be its provision in the schools. 39 cut of 33 responses have mentioned this reason. The next important reason is the students own aptitude mentioned by 12. The other reasons are teachers choice (9), hereditary craft (3), accidental (6), and parents choice (5).

A student learns eract for 3 years in ease of high schools and 6 years in ease of multipurpose schools. We schools have sentioned that it is possible for the students to change eracts during the course, usually in

the 9th class.

The period or periods prevised for eraft work are generally of 35 to 40 minutes each. The length differs from 30 minutes to 45 minutes and in one case it is 90 minutes. Average number of hours deveted to craft work is 5.3 - the range being from 3 to 10 hours per week. This time seems to satisfy most of the secondary school Principals as 90 have sentioned that this Ef is of sufficient length, while 13 do not feel that the time devoted for craft work in sufficient.

Guerlaulm.

Alacst all the schools feel that the curriculum streames the creative aspect of craft. Similarly, most of the schools (24) feel that the curriculum is integrated with home and community experiences, and that it is integrated with co-curricular activities (20). Less than half of the schools (14) feel that the curriculum has integration with other subject areas in the programme of studies.

The schools seem to be satisfied with the centent of the curriculum, as most of them feel that the centent include manipulative skill (89) study of economics of the craft (83), the scientific basis of the craft (94) and the application of the craft in daily life (26).

Twenty six scheels feel that the ourriculum stimulates interest in the pupils and propares them for eraft pursuits beyond the secondary scheels.

Only a few schools (9) conduct field trips to places of interest from the standpoint of craft education.

PHYNICAL PACHLITIES

Accessedation

The size of craft class seems to satisfy almost half of the respondents. The size mentioned ranges from 100 sq.ft. to 300 sq.ft. In most of the schools the craft classes are conducted in a separate room. Some highs schools ic not have separate room for craft classes. The room provided seems to be well lighted and otherwise suitable in most cases. It seems that only in about half of the schools for which responses are received, adequate storage facilities are available for pupils' hand-work, general material and supplies.

Bond mand.

As for the equipment, rew-enterial is adequately supplied in most cases. 23 schools mentioned that the rew-enterials are sufficient. Some high schools are not satisfied in this respect. Of other equipment the tools are considered sufficient in 24 cases, tables in 17 cases, easily in 13 cases and work-benches in 14 cases. Show cases and display beards are not considered sufficient in the majority of cases. On the whole, the schools feel satisfied with regard to the use of these material supplied.

All the schools except 6 say that the rew-materials are made available to the aupils in time.

The teels are used both by the individual pupils as well as in groups, although the trent seems to be zero in the direction of using the teels in a group. In one case the trels are shared by 116 pupils, but in other cases the range is from 3 to 15.

Of the instructional materials, most of the schools seem to be provided with text-books (23), pupils, collection of craft designs and materials (23), temphare' file of materials (22) and craft models and charts (21), Reference material seem to be available in many schools (18). However, only a few (9) schools have provision for periodicals.

Diancial

The main practice in disposal of craft produce some to be giving those back to the pupils. It schools have accepted this practice (only 34 schools have responded, and so about half of the schools seem to be following this practice). Mine schools seek these products to pupils and staff members and other to public. Only three schools have these for school use and only one school has mentioned anothering of the products as a way of disposal.

711/11/20

Information about number of craft teachers employed is not much clear. Some schools have one teacher for one craft. Some schools have one teacher of two grafts, one school has one teacher for three crafts, and in one school one teacher teacher five crafts.

In about half the schools (19) teachers have received institutional training. Most of the schools have difficulty in getting craft touchers the bring their subject satisfactorily (34) and the are polagogically trained (23), only ten schools employ untrained and unquelified artisans in teaching crafts.

Cally half of the schools (19) feel that the staff provided is adequate for the various crafts.

In most of the schools the craft teachers are matriculate with diploma in crafts. In a few cases inter in Agriculture or B.Sc. (Agr.) and only one M.Ag. - are caployed. A few schools are having on their staff B.A. with diploma in crafts.

The teachers in the schools of Rajasthan get their training in erafts at the following institutions.

- (1) Vidyabhowan Handierafts Institute, Viaipur.
- (2) S.T.G. Schools.
- (3) Institutions of Social Welfare Departments.
- (4) Infratrial Training Institute.
- (5) Sir J.J. School of Arts, Bombay.
- (6) Jamia Millia, Delhi.
- (7) Bilaspur Crafts Enstitute, Bilaspur.

There appear to be 3 scales of pay for teachers teaching craft in secondary schools. Some schools employ craft teachers in the grafe of Rs.50-4-70-5-80, some others have in the grade Rs.70-140 and some in the grade B.110-225. It is mentioned by one school that the approved grade for a craft teacher is Rc.70-140; but generally craft teachers are not employed in this grade in secondary schools. AGRIC Grade teachers is paid Rs.150-250 in one school and the Technical Instructor is in the grade Rc.150-300 in another school. On the whole, craft teachers are in the grade of Rs.70-140 or in variation of this grade.

About half of the schools say that the teachers follow scient practices in oraft teaching. In about 50% of the schools graft teachers participate in the economity craft activities.

MINALTARIK

Most of the schools assess pupils' work by maintaining a record of pupil progress and by evaluating creative abilities. In less number of schools, but in more than helf, this is ione by evaluating technical competence and by evaluating quantitative turnover.

In most of the schools internal assessent is made for evaluation purposes, and in other schools both internal and external assessment is made. All the schools hold examination twice a year, in addition to 3 tests by class teach ms. The usual pattern of examination is to have one theory paper of 3 hours duration carrying 40 marks and one paper of practical of 4 hours duration carrying 50 marks. There is no special viva voca examination. However, scae questions based upon proctical examination are asked and marks are allotted out of 10. This makes the total marks for eraft examination as 100.

In most of the schools the minimum pass marks prescribed is 36%. In two cases it is 40%. Most of the schools ecusider the marks obtained in crafts for proposes of premotion. Two schools mention that these are taken into consideration only for the XI class.

ATTRIBUTED TO

PERCEINE GRAFTE WORK

The folicwing steps have been reported for practing craft teachin: in schools.

- (a) Encouraging students to hind their own books.
- (b) Organisation of craft week.
- (c) Improving scapetimes of teachers through further training.
- (1) Providing latest models and charts.
- (e) Praparing eleth for the consumption of students and staff.
- (f) Seeking acoparation from local skilled artisans.
- (g) Organising descriptions.
- (h) Holling of special classes.

Succestions

The following suggestions are offered by the different schools:

- (a) Trained craft teachers should be provided (11).
- (b) Adequate ray material should be provided (8).
- (c) Adequate femile should be provided (3).
- (d) Adequate equipment should be provided (5).
- (a) Time for craft work should be increased (4).
- (f) There should be adequate space for oraft (3).
- (g) Adequate number of teachers should be provided (3).
- (h) Craft exhibitions should be organised.
- (1) Prises should be given to deserving pupils.

(rafis Pallowed in the Secondary Schools

		dienter printprogram								
Gracia	n	Sp. Ac	ngol.			Agr.				Tetal
	**	* sph ssp	***	***		8 69 69				
Spinning	3	60	3	3	**		2	49	1	19
Weaving	3		8	3	60	4		***	1	13
Wood work	職	600		1			3	40	1	5
Book Binding	3	•		₩	₩	*	69	45	65	3
Card Board Work	4	#		***	勸		1	***	#	
Clay Modelling	3	@	日本	*	iis	1	糠	*	420	4
Drawing	**	#	1	**	69	**			*	
Agriculture	MAR	#	1	1	(A)	1			∳ ®	8
Papar work oto.	4	#	₩	糠	铷	3	(1)		***	8
Gardening		*	16			1	(68)			8
Nusle	1		***			**				4
Stone-typing	@	69				(M)		•	***	1
General Engineering.	6	®	@	***	***	(5)	2	**	1430	2
Tailoring	1	. 8	3		8	3	58	SEPTION	449	15
Netal Craft		©	*	#	r constant of the constant of	(2)	1		œ	

III. AN PRADER

GHARTS

The institutions answering questionnaires in the State of Utter Praiosh are both high schools and intermediate colleges. It appears that there are no schools having it classes and consequently there are no, what are univerted as higher secretary or multi-purpose schools in the State. About 50% of the schools have craft as compulsory subject while other schools have it as an optional subject. There are some schools which mention that craft is both a compulsory and an optional subject. All the schools where oraft as a compulsory subject have it in the grades 6 to 8. These schools in which craft is an optional subject have it in grades 6 to 10 or 6 to 12. (he school has also mentioned that craft is taught in grades 5 to 9 and another school in grades 9 to 12.

Chiantiven

The most accepted objective in introlucing craft education seems to be the inculcating of dignity of labour in ouplis. The next important are - making the students approclative of craft products and making them better house-holders. The objectives of providing venetical catlet to pupils, exploring their aptitudes and interests and enabling them to gain manipulative skills access to be coming next. It seems that the least acceptable objective is to gain pupils' confidence to use the inexpensive and locally available material. The responses to the question as to what extent the objectives are being fulfilled are varied in nature. The generall trend seems to be that the schools which have craft as compulsory subject indicate satisfaction in fulfilment of diectives while the schools which have craft as expulsory subject indicate satisfaction in fulfilled to some extent or that they are not satisfied in this regard.

Grafts toucht

Book craft seems to be the arst popular craft in the schools of Uttar Praiesh. This is followed by word work, tailoring and agriculture. The details of the crafts followed in the schools of Uttar Praiesh may be seen in the table given at the end of the report. There seems to be little difference in the crafts taught in boys and girls schools. Musel (if it can be regarded as a craft) is introduced only in one school which is a girls school and embroidery is in two girls schools. Sewing again is only in girls schools.

All the schools provide only one craft to the students at a time with the exception of two wehools which have two crafts. Hajority of the students choose craft because there is provision for craft in the school. Meanist also report that the craft is chosen by the students according to their aptitudes. 20 schools report that parents choice is an important factor. Teachers that parents choice is an important factor. Teachers the palection of crafts by the students.

About helf of the schools mention that it is possible for the students to change crafts. Mest of these schools indicate that the change is possible in 9th class while 3 schools indicate this to be in the 8th and 3 schools in the 10th grades.

As in other States the replies to the question how many hours are devoted to craft work' are not clear. The range of Languers from 1t hours to 36 hours. Replies are rather vegue although the general trend seams to be in the neighbourhood of 8 hours. The periods devoted to craft work are usually of the duration of 40 minutes. Some schools have periods of 45 minutes while a few have of 35 minutes or 30 minutes. Most of the schools seem satisfied with the length of the period.

Curriculum

Most of the schools indicate that content of the craft curriculum includes application of craft in daily life. Quite a large number of schools (51) have manipulative skill in the content of craft curriculum. 39 and 45 schools respectively indicate that the content of the craft curriculum streams the study of the economics of the craft and of the cointific basis of the craft.

A large number of schools seem satisfied that the curriculum is integrated with the home and the community experience. About half of the schools (27) feel that it is integrated with other subject areas in the programmes of other. About half of the schools are of the opinion that the experience is integrated with the co-curricular activities.

A large number of the schools (52) indicate that the curriculum stresses creative aspects of craft. 42 schools indicate that it stimulates interest in the pupils and prepares them for craft pursuits after secondary education.

Very small number of schools (19) use field trips to places of interest from the view point of eraft education.

BITATION PACIFIES

<u>Acaemaciatica</u>

The size of the craft class has been interpreted differently by different schools. From the replies of the schools which uniorstand it as the size of the roca the range appears to be from 360 sq.ft. to 1900 sq.ft. The average size is about 500 sq.ft. About half of the schools feel that the size is suitable for the type of work done.

A little more than half of the schools have a separate room set apart for the purpose of craft teaching. All the schools which have a separate room indicate that it provides adequate space and that the room is well-lighted and suitable for the purpose.

About half of the schools have alegate storage facilities for storing pupils craft products and other material.

Equilyment.

More than half of the checks seem to have sufficient number of work benches, tables and tooks and display boards. Most of the schools have raw-material. There are only a small number of schools which have easily and show-cases. Most of the schools indicate that the material and equipment are being sufficiently used. They are satisfied that the raw-materials are made available to pupils in time.

In about half of the schools pupils work indepenishtly and in other half in groups. There, are, however, any schools in which work is done both individually and in groups. About half of the schools indicate that the students are provided with their own tools. Students in schools where they have to share tools share them with about 4 or 5 other students. There are some schools which indicate that the tools are shared by the groups

Very few schools keep the workshop open after schools hours. The range of the percentage of students utilising this facility in those schools seems to be from 5 to 90.

A large number of schools (43) indicate that they provide eraft acdels and charts. More than half of the schools provide text-books, reference material, teachers file of material and pupils' collection of eraft designs. A small number of schools have periodicals.

Managal

The usual practice of disposing of craft products is by sale. West of the schools have indicated this. The craft products are usually sold to the public and in many cases these are suctioned. Some schools return the craft products to students who have made them.

PRATEIRA

Most of the schools have only one teacher for one craft. There are some schools where one teacher teaches more than one craft and in a few schools there are two teachers for one craft.

the teacher: have received institutional training in account the received institutional training in account the bold of the schools indicate that they employed the training the compact training the polar experience that the but less than half have difficulty in securing eraft teachers who are polar experience trained but less than half have difficulty in securing the know their subjects wall. Only a few schools use untrained and unqualified artisans for teaching of crafts.

More than half of the schools feel satisfied that the staff for the craft is adequate.

The qualifications of the craft teachers vary among the schools. It is not clear what matifications are prescribed by the State for the different to teachers. However, it appears that the usual qualifications for eraft teachers is intermediate diploma and training in crafts. There are schools employing 7 and 8 grade pass teachers who have some training in crafts and some schools have Graduate teachers. The usual pattern however, is to have high school pass or Intermediate pass teachers.

The following institutions are mentioned as providing training in orafts:

- (1) Junior Teacher Training Institutions.
- (2) Training Golleges.
- (3) Extension Teachers Training Institutions at Partapart, Gorakhpur and Rudarpur.
- (4) Wood Work Institute, Lucknew.
- (5) Constructive Training College, Lucknew.
- (6) Arts & Grafts Centre, Lucknow.
- (7) Central Weel Work Institute, Allahabad.
- (9) Pedagogical Institute, Allahabad.
- (9) Carpentry School, Allahabad.
- (10) Art Training Ocllege, Allahabad.
- (11) Drawing and Handlerafts Centre, Allahabad.
- (12) Weaving and spinning College, Varanasi.
- (13) Refreshereourse Training College, Partapparh.
- (14) Home Science Training Sollege.
- (15) Government Contral College, Kanpur.

The usual salary pattern for the craft teachers seems to be from %.75-168 or %.175-200 or %.220. Some schools have teachers in the grade of Rs.45-90. There are other grades also. In most of the schools, however, the grade is from Rs.75 to Rs.200. About half of the schools indicate that the craft teachers follow modern techniques of teaching and much less schools mention that the craft teachers participate in community craft activities.

RVALTATION

Most of the schools maintain records of pupil progress and help in the evaluation of pupils work. About half of the schools evaluate the technical competence. A little less than half evaluate quantitative turnever and

ereative ability of pupils.

In most of the schools assessment is internal and there are only 8 schools which have only external assessment. Some schools have both internal and external assessment. Almost all the schools mention that they hold examination in craft. However, there are three schools which do not have examination in craft. Usually the schools have two examinations in a year although there are some inchools which have three. Examinations are usually held both in theory and practical. The range of the inration of the papers for theory is from one to three hours, usually three hours. Some schools have yive your examinations also.

The minimum percentage for pass seems to be 33, the range being from 30 to 40. Some schools have different pass percentage for theory and practical. The usual pattern in these schools is 26% for theory and 40% for practical. Ment of the schools take craft marks into consideration for promotion. Ten schools indicate that these are not taken to into consideration.

THE METERS OF THE PARTY OF

Pronching graft york

The following steps have been reported by some schools to promote craft works-

- (1) Introducing craft as a hobby.
- (a) Organising exhibitions.
- (3) Arranging craft education for boys not enrolled in the school.
- (4) Raphasis on art work.
- (5) Organising demonstration a for villagers.

Succestion

The following suggestions are offered by the various schools in order to proacte teaching of crafts

The first four suggestions are given by many schools.

- (1) More funds for recurring & non-recurring grants may be provided.
- (2) Adequate equipment may be provided.
- (3) Suitable workshop for craft work may be provided.
- (4) Better teachers.
- (5) Students getting training in craft should be preferred in selection.

- (6) Botter pay for teachers.
- (7) Improvement of syllabus.
- (8) Alequate raw-material.
- (9) Craft classes
- (10) More training facilities.
- (11) Stress on practical work.
- (13) Providing books and magazines.
- (13) Continuing orafts in the University.
- (14) Providing market facilities for craft products.
- (15) Stipenie to good students.
- (15) Combination with Science or Arts.
- (17) Power driven machinery may beintroluced.

C'orafti followed in the secondary schools of man PRADET

		689 688			Q	Alger		TO T	ega C	Total
Spinning	(4)	1			秦 李 6		1			7
Weaving	cas	1		2		1	1		*	6
Weed work	443	•	1	13	*	\$\frac{1}{2}\frac{1}{	1	***	40	15
Bork Craft	3	69	1	27	@	8		49	100	34
Cardboard work	2		4935	1		@	#	€	(1)	4
Paper work	1	424		4	1,	在海	46	***	(29)	
Music		1	60	@	dap	⑫	₩		₩	7
Drawing	\$	1	44	2	2	@	囄	***		5
Home Craft	#	1	1		1				4	4
Tallering	6 5	1		9	3	7	4	€	49	16
Morcidery	幽	1		100	1	1539		60	400	
Agriculture	613		@	9	(2)	2	*	(10)	榔	11
Dell meking	459	Ċ	68 9	1		ಈ	解止		467)	8
Leather work	(29)	400	秦 道	2	1	₩	(4)	(2)	69	3
Technical orafts	427	4	422		Ç		蜘	(2)	*	
Glay work		•	**	*	1	•	649	€	@#	1.
Metal oraft	1	69	•	2	63		49	49	(circ)	2
Gardening	1	649	#18	53	@	kii A	5	乾油		
Pisheries	@		1	*	40	成體	430	40	•	1
Sewing	*	T	@	₩	2	629	曖	40	144	2

MARK BENGAL

GRAFTS

In all the schools of West Bengal craft is a subject. Only one schools has indicated is an optional subject and in one other school it is both optional and compalsory. In most of the schools erafts are taught in classes 6.9. Some schools have crafts only in the 9th class, a few have in class 9-11.

Chlochlyna.

able. These ares providing vocational cutlet to pupils, enabling them to gain manipulative skills, inculcating dignity of labour, exploring their aptitudes and interests and making them entire to a facility. Each of these objectives have been entered by 40 schools. The least acceptable objective is of offering opportunity of guided exploration and experimentation (entered by 16 schools). The schools indicate that the objectives are being fulfilled fairly well.

Confin Court

The most popular craft in secondary schools of West Bengal appears to be word work. This is followed by clay modelling and embroidery. The details about the orafts taught may be seen in the table given at the end.

As will be seen from the table spinning and weaving are taught only in the higher secondary and multipurpose schools. Weaving is not found in girls schools. Weaving is not found in girls schools which have doll making, home crafts, sabroidary, fibre eraft and pottery not taught in boys' schools.

All the schools provide only one craft to the students at one time. Only 3 schools have mentioned that two crafts are provided.

Mest of the schools give the reason of the choice of the craft by a student as the provision of the craft in the school. Cally a small number of schools (17) mention the aptitude of the students as being the basis of selection. Very few schools have mentioned other reasons; Parants' choice (4) teachers' choice(10) and the craft being herelitory in the family (4).

Most of the schools mention that it is not possible to change the craft in the secondary stage. Only 7 schools mention this possibility. They differe in the grade in which this change is possible - 7,8,9 and 10 being mentioned.

ips 10 balas montagado-

Time devoted to eraft work by one class in one week varies from 40 minutes to 75 hours. The usual trend seems to be to have 12 hours per week. The usual duration of the eraft period is 40 or 45 minutes. A few schools have periods of 60, 75 or 80 minutes. More than half of the schools feel that the duration of the partol is significant for areft work.

A large number of schools (44) are of the opinion that the craft ourriculum is stimulating for pupils and provides scope for after-school pursuit of erafts by the students.

A very small number of schools (16) organise any field trips that are of special interest for the craft education.

PHYSICAL PARTITION 3

Anconcintion

The information about the size of the roca in which craft classes are held is not clear. Some schools have interpreted it as size of enrolment in the class. However, the size of the roca ranges from 200 sq.ft. to 2200 sq.ft. From the figures it appears that most of the schools have rocas of the size of 400 sq.ft. to 500 sq.ft. Most of the schools (40) feel that the roca provides adequate space.

Mor: then half of the schools have adequate facilities for scoring craft products male by students and other material and supplies.

Baulinenta

A large number of schools are satisfied with the availability of raw-material (39), tools (39) and work-benches and tables (33). (nly 23 schools have adequate supply of easils and 19 schools have show cases. 43 schools feel that the materials received are adequately used.

A large number of schools (44) say that yawmaterials are made available to pupils in time. In most
of the schools pupils do group work as well as individual
work. 32 schools mention that they provide sets of tools to
individual students. It appears that usually a student
shares tools with 4 or 5 other students.

Caly a few schools keep the workshop open after school bours.

More than half of the schools report that they have availability of text-books and teachers' file of material. The number of schools having reference material and pupils collection is less. Only a few schools have periodicals available for eraft work.

Mancaal

The usual practice follows in the schools of West Bongal is to return the articles to the students. 17 schools report this practice. Only 35 schools have given information about this and may be seen that about half of these return the articles to students. (3) solved have said that they sell the articles. Sother schools keep the articles in schools and two schools report that the articles are used in the schools.

The state of

On the whole as in case of other States one teacher seems to be suplayed for one craft. However, there are a few schools which have no teachers for some crafts and some school has even 4 teachers for one craft.

More than half of the schools indicate that the staff supplied to them is adequate for craft purposes. 44 schools report that the to-chere have received institutional training in crafts.

35 scheels report that they experience difficulty in securing craft teachers who know their subjects satisfactorily and 35 schools experience difficulties in securing teachers who are poingogically trained. It appears that only a few scheels employ untrained and unqualified artisons for teaching crafts in school.

The following institutions provide training feedlities for eraft teachers:

- (1) Saroj Wathini Training School.
- (2) Brahae Training School.
- (3) Vishwa Sharati.
- (4) Government Training College for Art & Craft.
- (5) Lady Brabourne College, Calcutta.
- (6) Shivpur B.E. College.
- (7) Shriniketan College Industires Training Centre.
- (3) Polytechnical Institutes at Fulia, Kalyani and Shrirampore.

The grade in most of the school for evaft teachers starts with Re.70/-. In many cases it appears that there is a fixed salary. But in other cases this is from B.70-150. Some schools give B.30/-, B.100/-, B.110/- and even R.250/. In two cases the grade is B.250/40 B.850/-.

modern practices in teaching erafts. However, only 13 schools mention that their teachers participate in economity eraft activities.

GUALTISTICH

35 achools maintain record of pupil progress. 27 achools evaluate creative ability. 19 schools evaluate transfer and 13 schools assess quantitative turn over the contraction of the con

Most of the schools held examinations in craft. All the relacts seem to held internal examinations. Usually examinations not held 3 times in a year. Some schools held examinations once a year and a few schools three times a year. Usually schools have examination both in theory and practice. A few schools have vive yous also. The range of duration of theory paper is from half an hour to three he irs. and the maximum marks from 20 to 100. Practical examinations are held for 15 worked to 4 hours, maximum marks range from 25 to 100. In most cases, the minimum pass marks are 40%, some schools having 30% also. Nost of the schools take craft marks into consideration for purposes of practice. Only 8 schools have mentioned that craft marks are not considered for promotion.

THE CONTROL OF THE

Preneting aratt work

The following special features are mentioned by various schools in order to proacte eraft works-

- (a) Awarding prisos.
- (b) Helding exhibitions.
- (e) Distributing profit from crafts.
- (d) Organising examinations.
- (e) Organising visits to interesting places from the point of view of oraft education.

Suggestions.

The following suggestions have been offered by various schools with a view to proacte eraft education.

- (1) Adequate finance to be provided (14).
- (2) Rew-meterial and equipment to be made available (11).
- (3) Trained and qualified teachers to be provided (9).
- (4) Mere erafts to be introduced (6).
- (5) Adequate accommodation to be provided (4).
- (6) More time for craft work be be made available (4).
- (7) More craft teachers to be employed (3).
- (8) Craft workshops to be opened in all schools (3).
- (9) Graft to be made compulsory.(3).

Profts Hellowed 317 in the Specondony Selevals

	ethicipy (cycle)		(valghage stickings)				Many Sport Company	iterations or antique			
Grafts	3		heel.	2075 may 2		Ego.	der	<u> </u>			TCTAL
hruning	(SP			elita dan	1	2		4		1	• • • •
ioaving	(23)	400	127P		1	65	qu.	2		1	4
Clay [cdelling	1	L	鄉		100	*	\$ \$	8	2	1	12
Ooll making		1	669		43)	1	472 4	40	1	■	3
Drawing	400	1	10		43	2	*	1	1	*	
Paper work	600)	1	490		•	1.	•	8	2	8	8
icae crafts	49	***	693		©	8	60	69	1	det)	4
iechnical subject		#			450	417	模樂	8	m	1.	9
Ambreidery n e#dl e ver k		8	49		gap.	3 .	#	6 79	6	1	1.8
Wood work	65	100	1990		8	œ		25	**	4	35
Motal oraft	469	1800				#	6 P	5	***	1	9
Leather work		@>	(50)		1	1	•	8	1	***	5
Haz work	420	•			(4)	1	***	400	***	#	1
Printing	•	448	450		549)	45th	9502	Ci	1	***	1.
Pibre craft	150	@	<i>6</i> 00		(4)		tin.	(4)		聯	1
Talloring	柳	49	•		瓣	1	100	極腳	2	1	<u>ه</u>
Sowing	鄉	400	**		€		***	#		978	8
Pottery		*	49		@	qip	•	6	1	99	1
Gardening	#	40	•			ejs	**	2	@	2	4
Cano vork	4		497		60		440		1	1	28

Appendix: JUL

THAI NING FACILITIES IN COTTAGE CRAFTS*

A state-wise list

State

Cottage crafts

1. Andhra Fradesh

Coir goods menufacture, Cutting and talloring, Embroidery and meedle work, Glass beeds and bangles manufacture, Pottery, Rattan work, Toy making, Oil pressing, spinning and weaving, cotton and rope making, came work, hosiery manufacture, dyeing and printing, dyeing, weaving, dyeing and hosiery, castor farming and Eri silk rearing, banboo industries, weaving, dyeing, printing and hosiery, soap manufacture, hand-loom, weaving, carpentry, blacksmithy, leather work, weaving and pottery. Crafts, carpentry, ceraales.

2. Bihar State

Bamboo and came industry, basketry, bee-keeping, brass-metal, calico printing,, carpet and durri making, ceramics, charkha spinning, cotton weaving, cutting and tailoring, doll and toy making, dyeing, embroidery and needle work, glass and bangle making, handloom weaving, knitting, newer weaving, oil pressing, pala gur industry. pottery, rope making, silk weaving, silk weaving and dyeing, soap, disinfectants, boot polish, candles and cosmetics making, soap making, spinning and weaving, stone wore, tasar reeling and spinning, village industry, wool weaving, sari work.

3. Kerala State

Agarbathi and mat verving, book binding, bashoo work, ratten work, coir traising, coir work, mut making, gles manufacturing, toy making, soap making, silver saithy, candle making, crafts, poultry-cum-bee-keeping, manufacture of sports goods, blacksmithy,

itate

Cottage crafts

bell metal training, manufacture of plastic wares, cycle parts, cutting and tailoring, tailoring and garment making, cutting, tailoring and dress making, embroidery and garment making. needle work and garment making. knitting and erochet making. spinning (Ambar Charkha). spinning (Kisen charkha). weaving, spinning and weaving, weaving and meedle work, weaving, carpentry and coir work, weaving erochet, knitting embroidery and pillow-lace work, weaving and mat making, weaving, mat making and smithy, weaving, spinning and coir work, dyeing and printing.

Amber charkha training, bemboo work, bamboo and came work. bee keeping, bleaching, dyeing and calico printing, brush making, cane work, came works and becketry, embroidery, fibre articles, glass industry, grass mat training, hosiery, lac industry, oil pressing, palm leaves articles, paper pulp toys, pottery, preservation of fruits, printing and dyeing (Artisans) course), screwpine work, sump industry, soap stone industry. spinning and weaving, spinning(wool sports goods, tailoring, tailoring and embroidery, training in carpet and duree manufacture, toy and lacquer work, toy making, weaving, weaving(wool).

Ambar charkba training,
Ambar Karyakartha course,
book binding, exacts, cutting and
telloring, dyeing, bleaching and
printing, embroidery, embredery
and dress making, embroidery
and needle work and dress making,
enamel work, goldsmithy, hand
weaving, handloom weaving, home
seience, Khadigramudyog training,

4. Madhya Pradesh

5. Madras State

utate

Cottage crafts

Khadi workers, knitting, lace makingneedle work and dress making, needle work, dress making, embroidery and weaving, paper making, sewing, sheat metal work, spinning (Ambar Charkha), spinning and bamboo work, spinning and weaving, tailoring, willage industries, weaving.

6. Mysore State

Bleaching, dyeing and printing, cane and bamboo work, cane willow and bamboo work, coir extraction and spinning, coir work, atting and tailoring, embroidery, pottery work, kattan work, spinning and weaving, spinning, weaving and dyeing, tailoring, embroidery, zari and nukki, knitting and agarbatti making, weaving, weaving and dyeing, weaving, dyeing, printing and hosiery manufacture, weaving leather work, smithy and carpentry.

7. Funjsb state

Ambar cuarkha, book binding, came, willow and bamboo work, carpet making, outting and triloring, burries, carpet and niwar making, dyeing and printing, ambroidary, hostery manufacture, ink and chalk making, knitting, names making, painting, plastic goods manufacture soap making, spinning and weaving, sports material manufacture, tailoring and embroidary, toy making, utensil making, weaving and dyeing.

8. Rajasthan State

Damboo and basketry, bashoo and came work, chick and auddha, cutlery work, cutting, cutting and tailoring, durry, carpet and niwar making, hair oil, chalk and ink manufacturing, moonj ban making, plastic toys and stationary making, soap making, tailoring, toy making, weaving,

State

Cottage crafts

9. West Bengal State

Badminton shuttle-cock manufacture. bakery. basketry.bee keeping. braiding, brass engraving, cane work, cane and bunboo work. carpet and sataranchi making. ceramics, clay modelling, coir work, confectionery, toy making and designing, cord making, cutting and tailoring. dyeing and printing, embroidery and cutting, embroidery and knitting, embroidery and sewing, ghani, ink making, jeelly (paper and chanachur) Making, knitting, mat making, match making. needle work, paper making, paper and clay modelling, pottery work, soar making, spinning, enimning and weaving, shola goods manufacturing, toy making, umbrella making, weaving section, dyeing and printing o emercial art. librarianship, music, painting and decorating, painting and drawing, special art, teachers' training.

Compiled from "A Mandbook on Training Facilities in India"- Part I. I could by The Occupational Information Unit, Mirectorate-General of apployment and Truining, Ministry & Labour and Employment, Covernment of India. - December 1960.

APPENDIX - IX

(Draft syllabus-cum-plan of work in paper, cardboard and wood-work for grades I to XI given in the following pages is only a tentative plan prepared by some craft lecturers in the Post-Graduate Basic Training Colleges. It requires to be studied and improved by a committee of competent persons in order to make it a model plan of work)

BIANDARD - I

ractical & Theory

Who children of I standard are at the age of 5+. As the children of this standard cannot handle tools and implements and are unable to prepare useful articles, our suggestion is that children should not be given any productive activities in standard I. The teacher should take them to some higher classes of the same school or any other school nearby where crafts are taught and show them the craft work done by the students. Let the students take the things in their hands, see and observe them freely. The teacher should also take them to some craft exhibitions held nearby. They may be shown teels and implements. The aim is to make them ready for learning paper and card-board work in standard II.

STANDARD-II

Practical Works

- 1. Paper twisting and crusbling: Twisting and crusbling waste news-papers and also binding by thread wherever meeded in order to make some rough shapes such ast-Nan-figures, animal figures like dog, cat, rat, anake, elephant, jackal, etc., and some playthings like balls, houses, dolls, etc.
- 2. Paper tenring: Tearing off the paper by their fingers along the outlines of some shapes of simple vegetables, fruits, animals and birds, etc., such as brin-gal, lady-fingers, carrots, mangoes, bamans, orange, apple, etc., dog, lamb, herse, cat, rat, camel, elephants, etc. The making of outlines around the shapes should be done with the help of templates cut by the craft teacher. Paste these cut shapes on the black colour papers and hang them in class rooms.
- 3. Paper folding and creasing: By creasing and folding on some lines in a square of paper, some shapes of birds, animals and play-things should be formed. Articles such as boat, drinking cup, ship, butterfly, ink-pot, paper-pig, paper-bomb, trees, aeroplane, fish, flying bird, paper lamtern, cup-saucer, wind-mill, chair, cot, table, etc.
- 4. Paper cutting and pasting: Creating designs by arranging some geometrical and decorative shapes systematically out of maste coloured papers cut with the help of templates prepared by the teacher.

Skills to be accuired:-

- (1) Handling of papers and scissors while working
- (2) Folding and creasing correctly on lines (3) Sense of beauty

Theory

Enowledge is to be given in -

- (1) Identifying the different types of papers
- (2) Identifying some geometrical figures by telling their names
- (3) Knowledge about the proper use of the articles which they prepare
- (4) Method of pasting, cutting, creasing and folding, etc.
- (5) Knowledge about colours (only identifying)
- (6) Kinds of animals, birds, vegetables and fruits, etc.
- (7) Simple storied pertaining to the crafts such as - faithfulness, regularity, discipline and truth, etc.
- (8) What is symmetry?
- (9) Correct method of handling tools and impliments and papers, etc.

STANDARD-III

Practicel:

Some articles to be prepared in thick papers and thim card-boards-

- (1) Scissors' case (2) Comb case
- (3) Dolls of different poses (by thin card-board & papers)
- (4) Square tray
- (5) Bottle-case
- (6) Box with Lid
- (7) Scap case
- (8) Money purse (9) Rectangular tray with slope-sides
- (10) Hemagonal tray with slope sides

Group activities: (Compulsory)

- (1) Preparing hand marbling papers (2) Preparing paste
- (3) Binding of exercise-books for their
- own use (4) Drawing the diagrme of the articles done (step by step)

(1) Number of articles to be prepared:

Any 5 (six) articles from the list given above (1-10) Any 3 (three) articles other than those made in Grade II from the list in item No.3 (paper folding & creasing)

- (2) Group activities are compulsory
- (3) Skills to be acquired:-
 - (1) Paper cutting, folding, creasing & pasting, etc. (11) Developing accuracy.

Thonry

- (1) The children should have an idea of different types of lines such as horizontal line, vertical line, slope, straight line, curved line, corrugated line, dotted line, dash line, etc.
- (2) Why paste is used in paper and card-board work?
- (3) Why copper sulphate is sixed while preparing paste.
- (4) Different types of papers which they use in paper work and their standard sizes
- (5) The students should have the rough idea of some geometrical shapes.
- (6) Complete procedure of preparing hand marbling papers
- (7) What are primary colours and secondary colours?
- (8) Idea of suitable design samples for using in preparing hand marble papers
- (9) Identification of tools and equipments which they use and proper method of using them
- (10) Listing of raw-materials which they use.
- (11) Complete procedure of preparing paste and the proportion of water and flour.
- (12) The place of economy in paper and card-board work

G R A D E STANDARD IV

Practical vois

Useful articles in card-boards such ast-

- (1) Name plate
- (2) writing pad

(3) Fan

(4) Students' file

(5) Photo-grame

(6) Square tray with vertical sides (7) Takali box

- (8) Triangular tray with slope sides
- (9) Calendars (30) Somp-case

Group works

(1) Tray marbling

2) Spray work

(3) Binding of note books

Educational visits to some places where crafts are taught.

Craft exhibitions to be held at least twice a year and the parents or guardians see the work of their children.

Educational Values:

- 1. Development of aesthetic sense
- 2. Development of cooperative nature

3. Seld holp.

1. Number of artices to be parepared:

Any 5 (five) articles from the list given above(1 to 10) Any 2 (two) articles which have not been made in the previous years from the list 1 to 10 for grade III

2. Group work is compulsory.

Skills to be acquired

1. Card Board cutting

2. Cardboard behalfag

3. Paper cutting and pasting according to the shades and sizes of models

4. Colour harmony 5. Use of templates and stencils

6. Stitching of corners

7. Calico cutting and pasting

Theory

- 1. Complete procedure of tray marbling and need of terpentine oil and paste.
- 2. Listing of raw materials and finding the cost price of articles which they prepare.
- 3. How papers and card-boards are made and sold and which is the meaning of 1 lb. 12 lb. and 2 lbs. in eardboards

- 4. Use of different types of cardboards for different types of work.
- 5. The commercial sirpes and names of white press.
- 6. What are the primary and secondary colours and how the secondary colours are prepared.
- 7. Proper use of tools and equipments needed for cardboard modelling.
- 8. What is scale drawing and use of scale drawing in cardboard modelling.*
- 9. Detailed study of geometrical figures.

STANDARD - V

Practical

Cardboard articles continued:

- 1. Office case board
- 2. Office files (double portfolio)
- 3. Sliding box
- 4. Square or rectangular trays
- 5. Hexagonal tray with slope sides
- 6. Photo album
- 7. Box with extended lid
- 8. Hexagonal box with lid
- 9. Round shape box with lid
- 10. Ladies' book shape comb box
- 11. Flower vase
- 12. Fancy box

Group works

- 1. Preparing paper machie articles
- 2. Preparing calico for their own use.
- Preparing templates and stemcils of different shapes and figures.
- 4. Model house, school and garden etc.

Number of articles to be managed:

- 1. Any five (5) articles from the list given above (1 to 12)
- 2. Any two (2) articles which were not made last year (1 to 10 for grade IV)

1.10

2. Group work is compulsory.

Skilla:

l. More efficiency in cardboard outting, bending of so many shapes and figures of articles.

- 2. Stitching (continued)
- 7. Making partitions in boxes etc.
- 4. Development of accuracy.

Theory

- 1. Number of paper mills and their production in India
- 2. Ingredients of colours and method of applying colours to different types of articles.
- 3. Detailed process of paper mache articles.
- 4. That is designing and what are the principles of designing?
- 5. Methods of preparing templates and stencils of different shapes and designs which are useful for spray work.
- 6. What is scale drawing and use of scale drawing in paper and cardboard modelling
- 7. Tlasticity in paper (when paste in applied)
- B. Knowledge about the prices of raw materials used in cardboard work.

STANDARD VI

Wood Work

PRACTICAL

- 1. Mallet (Indian type)
- 3. Rapeta (Oteran)
- 3. Pencil sharper.
- 4. Flat/rule
- 5. Round ruler
- 6. Fan
- 7. Door buttons
- 8. Door stops.
- 9. Handles of Ehurpies, chisels and sickles etc.
- 10. Mooden seat (small) in shagle wood.

2 14 C x

11. Wooden spoon

- 12. Folding coat hanger with 10 pags No. 1
 - 13. Ginning board

Operations:

- 1. Sawing (Rip sawing and cross cut sawing)
- 2. Keasuring.
- 3. Sharpening (Planer blades and chisel blades only)
- 4. Nothod of sizing.
- 5. Chiaelling (Along and acrons the grains)
- 6. Ming
- 7. Making round from square shape.

Number of articles to be prepared:

- Any two card-board articles which were not made last year (I to 12 for grade V)
- Any Right (8) articles from the list given above (1 to 13)
- Any two extra models from the child's own design such as: different types of sample toys etc.

Theory

- 1. General study of trees (1) Sap wood (11) heart wood (111) Bark.
- 2. Use of roots, leaves, flowers and fruits as medicimes and as well as food.
- 3. Mame, identification and description of individual tool.
- 4. Proper method of using tools.
- 5. Proper method of maintaining daily work sheet in wood work.
- 6. Idsting of raw materials.
- 7. Knowledge of new weights and measurements (Metric system)

STANDARD . VII

Practical

- 1. Bread making board
- 2. Yarn winder.

3. Farking gauge

4. Cost hanger with metal pegs.

5. Different shapes of paper weights

6. Cherming rod

- 7. Table book stand (simple)
- 8. Spoon rack. A. Mame plate

10. Photo Trame (simple)

11. Slivering board with handle.

18. Wakli box

13. Money saving box

Operational

- 1. Chamforing
- 2. Rabiting
- 3. Mitro cutting
- 4. Nailing
- 5. Screwing

Jointa:

- 1. Cross helving
- 2. End housing
- 3. Moraise and Tenon
- 4. Through housing

limber of orticles to be wepared:

Amy two (?) articles which were not made last year (1 to 13 for grade VI)

Any six (6) articles from the list given above (1 to 13)

Any one or two (1 or 2) extra articles which the parents or guardians desire.

Theory

- General study of trees exygen and carbon-dioxide etc.
 - a) Growth of trees supply of food materials
 - b) structure of wood pith, annual rings, meduller rays, cells cambium and its function.
- 2. a. finding the age of the trees b. classification of timber - hardwood and soft wood
- 3. Telling time of trees.
- 4. Conversion of timber
- 5. Mreat and indirect benefits of forests.
- 6. Different types of forests of India
- 7. Identification, description and use of general tools.

- **A** Use of paints in wood work
- 9. Rearraing the wood in running foot and square foot.
- 10. Therpening and grinding of tools.

STANDARD VIII

Practical

- Soap case stand
- Clotter
- 3. Starting clapper (useful for sports)
- 4 Mino picen stand
- 5. Folding coat hanger No. 2
- 'lall bracket (Rectangular or semi circular in shape) G.
- 7. Corner brackets
- A. Pon and ink pot stand
- Nat rack ٠.
- Pot stand 10.
- Village Lamp stand 11.
- Table flower vase 17.
- 13. Muth room stool
- Terblott Langet 14.
- Toast or cake rack 15.
- Tore williams 16.

Coarations

- Mixing of boat and muts
- Fining of hinges 2.
- Vixing wire mach 3
- 4. Curve sawing
- 5. Process of tapering 6. Applying of adeasives
- Moulding the edges of wood.

Jointai

- Dovo tail foint
- Stopped housing 22 .
- 3. Groun Lab.

Wimber of articles to be prepared

- Any seven (?) articles from the list given above (1 to 16)
- Any two (3) articles which were not rade last year (1 to 13)
- Any one or two (1 or 2) extra articles of the child's own choice.

Theory

- 1. Method of natural seasoning of timber.
- Nethod of calculating the sawn timber on cubic 2. foot and board foot.

- 3. Defects of timbor:
 - a. Before felling defects b. After felling defects
- 4. Fundamental operations and their techniques in wood work.
- Theoretical knowledge and drawing the sketches of joints.
- 6. Identification of timber by physical process (By colour, structure, grains and smell of wood)
- 7_ Care of tools.
- 8. Different types of metal fasteners and proper procedure of fastening, such as: Nails, screws, hinges, bold and muts, pad locks, locks, and handles etc.
- Method of drawing the geometrical figures in 9. connection with the wood work such as - triangles. quadrilaterales, pentagon, hexagon and octagon.

STANDARD IX

Practical

- Ladies' bag handles
- Book shelf
- Э, coat hanger with wooden pegs (only page will be folded)
- 4.
- Tea tray
 Office tray 6.
- Small stool 6.
- 7. Towel roller
- Drawing board or wooden seat (more than one 8. plank)
- Portable kitchen shelf 9.
- Lenon crusher lo.
- Letter box 11.
- 12. Book ends or book rest
- 13. Wooden set squares.

Operations*

- Fret sawing
- Carving work 77 .
- Fitting of wooden page
- and grain or cross grain planning

Jointa:

- Plank widening joint or board joint
- Lap dove tall joint

Number of articles to be prepared!

Any six (6) articles from the list given above (1 to 13)

Any two (2) articles which not done in last year (1 to 16)

Any one or two (1 or 2) extra articles of child's own design which their parents or guardians desire.

Theory

- Preservation of timber
- Manufacturing and preparation of glues and their proper uses in wood work
- 3. Preparation of surface before finishing.
- Kethod of cross grain planning. 4.
- Proportions of ingredients in preparing lutty, 5. wax polish, stains, oil polish, french polish etc.
- 6. Method of applying wood finishes.
- 7. Knowledge of continuous processes involved in models.
- Ø. Finding the proportion of moisture content in the wood.
- Method of computing quantity of timber in round square shaped logs.
- Inscribing and circumscribing of Triangles, squares, In. and circles and method of forming Ellipse.

BTA MDARD-X

Practical

- La Time piece case
- Desk 3
- 3.
- Map stand Camp stool with cloth seat 4.
- 5. Masy chair
- Kishhen rack 6.
- Folding table
- Portable and adjustable book stand Letter case (Cabinet) 8,
- 9.
- 10. Ping pong racket

Coorations.

- Glass fixing
- Cloth fitting in chairs 2.
- Grooving in edges along the traings 3.
- 4. Beveling
- Finishing of wood 6.

Joint as

1. Through Moralse and Tenon

2. Stopped Mortise and tenon

Wumber of articles to be prepared:

Any five (5) articles from the list given above (1 to 10)

Any two (2) articles which are not done in last year (1 to 13)

Miner repairs of furnitures of their school if any.

Theory

- 1. Use of different joints for different purposes.
- Use of particular type of wood for particular type of articles
- 3. Kinds of trees grown in India and near by countries.
- 4. Different methods of sharpening of tools in different areas.
- 5. Finishing of wood.
- 6. Important notes about the selection of wood.
- 7. Drawing of different types of projections such as
 - a. Orthographic projection
 - b. Isometric projection
 - e. Oblique projection
- 8. Scale drawing and construction of diagonal scale.
- 9. Manufacturing, characteristics and proper uses of ply wood in wood work.
- 10. Different types of house structures.

STANDARD XI

Practical

- 1. Cupsaucer stand
- 2. Ladies' comb box
- 3. Mirror stand
- 4. Rocking chair
- 5. Deck chair
- 6. Small cupboard
- 7. Tea-poy (portable)
- 8. Teg-poy (folding)

Operations:

- 1. Finishing of wood (contd.)
- 2. Drawer making
- 3. Partitions making

Joints:

1. Practice in joints.

Months of articles to be prepared:

Any four (4) articles from the list given above (1 to 8)

Any two (2) articles which were not made last year (1 to 10 in grade X)

Minor repairs of furniture of the school if any.

Theory

- 1. Diseases of timber.
- 2.9 Names of Indian timbers and their characteristics (Any important 15 kinds of timber)
- 3. Properties of timber.
- 4. Compression and tension of timber and safe loads on timber.
- 5. Estimating the cost of articles.
- 6. Import and export of timber in India
- 7. Forest areas of India.

Note: The lists of articles to be made by the students of the different grades are only suggestive. Other articles, not suggested in the lists may be made provided they involve the same standard of processes or operations and the knowledge. An attempt has been made here to suggest some graded articles for guidance.

LIST OF RAW MATERIALS, TOOLS AND EQUIPMENTS REQUIRED FOR PAPER, CARD-BOARD AND WOOD-WORK INTRODUCED IN BASIC SCHOOLS

All the materials required for crafts are divided into two categories.

I Recurring articles i.e. Rawmaterials

II Non-recurring articles i.e. Tools and equipments

Paper and Card board-modelling - From standards II to V.

Rawmaterials s - (Recurring)

	Of sector Of the short of the	A-DOMPTHIS.	
81. No.	Name of articles	Sizes if any	Renarks
1.	Ordinary white foolscap	17"x13"	
2.	One side coloured and glazed paper.	∞(Å, €)∞	in all colours
3.	Thin tissu papers	30"x20"	in all celours
4.	Brown papers	49"x29"	
5.	Crape papers	md Om	available in rol
6.	Box boards (thick & thin)	26}"x16}"	available in light colours.
7.	Gard boards albs, 11b, 151bs and 2 lbs.	30}"x25%"	
8,	Waste papers	•	,
9.	News papers (after reading	3)	
10.	Drawing papers		
12	Ordinary powder colours	For pre-) paring) marble pa	Red, Blue and yellow.
13	. Combs (ordinary)	See State St	for spray work.
14	. Coat brushes		-do-
15	. Maida flour		For paste.
16	. Copper sulphet		For mixing in paste.
17	. Kerosene oll.	,	
18	. Tapes (cloth)	in width	

10.	Calico (Binding eleth)	in 3 qualities: Available in 1. Superior yerds and in 11. Inferior different colours.	
30 _e	Byelets	for files.	
21.	2480		
20,	Tempentine e11	for tray marki-	
23,	Thin vire	ing.	
		paper, flovers legy	
24.		for applying to the card-beard.	\$ 59
780	Small brushes	for using in tray marbling	
	Soving thread	for card-board work.	
27.	Weedles		
	White and ecloured chalks.	Cless works	
	ment attached to this.		
	WCCL-WCRK	Proposition VI to VIII	
	WCCL-WCRK		
	WCCL-WCRK Rew materi Time of articles	Prostantaris VI to VIII alst-(Recurring) 31.205 1f Penamik	
	WCCL-WCRK Rew materi	Prostantards VI to VIII	
	WCCL-WCRK Rew materi Time of articles	Propostorial vide VI to VIII 21st (Reciprolated vide vide vide vide vide vide vide vi	
	WCCD.WCRE Raw materi Raw cof articles 7071 WCCA	Proposalende VI to VIII 12 - (Regularing) 11 208 12 - Regularing	
	WCCL-WCRK Raw materi Raw mat	Propostable de VIII 12 - (Regularians) 11 200 12 · Regularians 11 20 Regularians 11 20 Regularians 11 20 Regularians 11 20 R	
	WCCL-WCRK Rew materi Rese of articles Teak weed) Rese weed) Ply wood	Propostable de VIII 12 - (Regularians) 11 200 12 · Regularians 11 20 Regularians 11 20 Regularians 11 20 Regularians 11 20 R	
	WCCL-WCRK Raw materi Placed articles Ply wood Wire mails	Property and the VIII. 16 16 (Recular VIII) 16 16 17 Recular de la company de la com	

9. Padlocks and horks		
10. Bee wex		
ll. Turpontine oil		
12. Lineod ell		
13. Crange chellee) 14. Mythelated spirit 15. Rumamastaki) 16. Chandras		For proparing French polish.
17. Raw solne powder		
18. Keresene oll		u
19. Cocomut cili		
20. Greese		
21. Ral (Regim)		
32. Animal glue		,
23. Some eclours soluble in spirit.		For mixing French polish.
24. Bomelled paints	White, Red, Blue, Yellow etc.	
25. Brushes	2", 2", 2"	,
26. New white eleth		3 yards for polishing.
For quantity and statement attached to this.	price please	see separate
PAPER & CARD.	BCARD MCDELLI	20
· Pron 34	andards I to	XV
Tools & equipments:- (Non-1	eourring)	r.
No. Name of a release	SI 203 II	the Carlo of the C
1. Small solesors		Egon one
2. Dig seissors	74	Sach ene

3. Iron straight edges 13", 12,1/16"Bach cne

190

Tada eno

Beak otto

4. Card-board outtors (Wavanis)

5. Tin feet rules

Ø,	Pon I	nibes	(erdinary) 6				
7.	Tin (rayı	2		312	3 123"		For tray marbling work.
8.			rass) one small.					For proparing paste.
0.		ellei (5, Sma	and the same of the ballon					For preparing colours and paste etc.
10.	On 1 n	a dings	0.					and Com
11.	Goen	rtrice	L box (weed	ton)	Lo			Teaching aid
12.	Draw	ing be	erds			'a}" & 'a6/8"		Zach ene
M.	Tos (square	1.		30	Longth	ı	Teaching ald
14.	Cutt	ing pl	for 1					For outting wire etc.
15	i i i i i i i i i i i i i i i i i i i	or. I	18 3, 1 3.		1	rain (ar))	For cutting card-board.
18	, Cant	ro pu	ion 2.					
17.	, Ohle	ols 3	9.		1/:	2" & L	特	For outting cardboard
18,	•					,	Net	ealf wood work is introduced in the same school, there is no necessity of purchasing shirels.
10	. Oton	70 (Gup	erier qual	1ty.	1			For preparing paste.
10	. Tin	dabba 2, sa	s 211 4.					For keeping Maida flour ove.
20	, Bet		Dig 2,					For keeping colours sto.
81	. C20	Black	board		5	1233 [†]		
	. 31g	ampre	art 1		0	'24' AK'	-	For keeping tools.
2	3.	-40-				-10-		For keeping for-
		luleid sque	l or woods res					lest of 2 fer 2 statemes

Bone Suggestions

- 1. There is no necessity of a separate craft hall for paper and card-board work. This work may be conducted in ordinary classes or in Varandaha or in open ground if weather permits.
- 2. For paper and card-board work, each boy requires 16 S. Ft. 1.e. 4' x 4'. Class can be conducted even in drawing classes.
- 3. If you want to build a separate claft hall for paper and card-board work, a hall of 40° x 25° (1000 sq. ft.) size is required including space for the teacher also.
- 4. Good and durable quality of ray materials, tools and equipments should be supplied.
- 5. The grants for craft contingency should be sanctioned before beginning of the academic year.

MOOD WORK

Tools and Equipments (Mon-Recurring) - for a class of 30 students

S1. No.	Name of articles	Sizes if a any	Romark	
特殊 和本 i	delek valda sinela sistig sirini danisi Alimi panda kipida badak majoli Ameri. Majoh Alisis,			
1.	Folding footrule (wooden)	24"	Individual per head	
2.	Hand savs	73m	-do-	1
3.	Jack plane (Iron or wooden)	10" or 14"	- 4	1
4.	Try Square (Steel)	6"	-do-	1
5.	Marking gauge	***	-de-	1
6.	Marking avl	G IA	~do~	1
7.	Mallet	1'	-do-	1
8.	Firmer chisels	* }	-do-	1
	W	3/8")	-400	1
9.	Mortise chisels	5/16" } 3/8" }	-do- -do- -do-	1
20.	Small hommer	d lb.		1

	pole took offer from the book base from the first and the first doors their		AUTHA jakes triger begge pajah telah penan mada seria senas
Mo.	Mame of articles	Giza if	Romerks
(Spin) 4660 Am	ndi vázda tejrel udrov tévnia hölvő abbób azzal septe, epinej takazi mendi épine épine épine	Street where many makes the first of	对对一位,但有 1 年 1 日 1 日 1 日 1 日 1 日 1 日 1 日 1 日 1 日
ha Lobii	or Chicola	1.10 1.10 1.10	General Tools 5 5 5 6
2.	Mortise chisels	· ·	3
7	Hand sava	18" 23'	9
4.	Hammers (Hig)	13. Ib.	4
€5 o	Screw drivers	12"	10
6.	Key hole save	N ACOLI	A sets 3 blades
Vo A	Hand drills (with all bits) Hatchet brace (-do-)	ध्यारंक सङ्ग ्राक	5 1
€.	Cutting pliers	G ⁿ	2
20.	Pincers (Wail millers)	An	4
11.	'Ang compasses	O _M	•
12.	Gil stones (Carborandum)	6×3×1.	4
19.	Grinding wheel (table fix)	6" dia.	1
14.	Wood files: Wood rough file (Rasp) Half round file (Rough) Half round file (Rough) Flat files (Rough) Round files (Rough) Triangular files	10"	5 5 3 5 3 8
16.	Sash Cramps	5 4	4
16.	G Gramp	data	3.
17.	Tenon savs	12#	6
18.	Smoothing planes (wooden)	8"	· *
20.	Plough plane	gradi	2
80*	Moulding planes of diffe- rent mouths		one set of 4 planes
21.	Fret sav	dona	1.

GF GF

Bl. No.	Mame of articles	todi eting	76-8	elijk.		zen any	11	Para to Para to C		Subs			r.	e Cs	SEPPE	Allocal	Mine.	輸售
	ATTENDED ACTUAL	and the state	410	4	Pods	navir iguari	Rend	Noorde ext	ga Appr	RESP.	wide	2004	#str	WAR	194	1552	Spitely	400
	Bow saw					***					,	I.						
29.	Mail minches					4n					,	8						
84.	Hand adyer (Small)										a R							
23,	Spoke shaves					~												
an en	many first with mind out the state with	post was	BUA	ddos	int	and the	ands	india a	dens. strant.	desa		- mont	ere.	voltes	estin.	and.	Him	whether

Equipment for wood-work class

70	Name of Articles	Sizes if	Remarks
	Alma not	egiliza Talenga kalipirkan _e llere sigk-perlatukan-gibp englisteri sigk-penglisteri sigk-panagan (kesasa) ka ajam	english englishen higher stepan mengan mengan pengan pengan pengan melan serian pengan mengan mengan pengan pengan pen englishen higher stepan mengan mengan pengan peng
Q.	Banch vices	3" jaws	6
3.	Geometrical box (wooden) with all instruments		1
4.	Drawing boards	18"x12"x}"	30
5 •	Set squares (Celluloid or wooden)	96,45° and 30,60,45°	15 sets of 2 set squares
6.	Tea-squares	18"	10
7.	Black hoard with stand or wall black board	5'x 3}"	1.
ß.	Cuphoarda	6'x4'x1}'	l for keeping general tools
	on GOm	6'x5'x1}'	l pigeon hole cup- board for keeping individual tools.
	-do-	6'x9'x1}'	l show cup board for keeping finish articles
6 .	Writing table	4'% 'x	1 for teacher
20.	Office chair	e de la compansa de l	1 for teacher
11.	Bench	6'x1\\'x1\\	1 for visitors
18.	A metal vessal	4" Dia.	For propering putty etc.
13.	Rnamelled cups	ordinary size	6 each

Some Surgestions

1. Accommedation: A separate craft hall is necessary for the school building and it should be sufficiently big and with sufficient light and ventilation. The size of the craft hall should be as below.

Tach student requires 36 sq. ft. i.e. 9'x4'. For 30 students, 1090 sq. ft. i.e. $36' \times 30'$ and for teacher 430 sq. ft. i.e. $30' \times 14'$. In total there will be 1500 sq. ft. i.e. $50' \times 30'$.

- Porking Benches: We feel that working benches are quite necessary for word work. It is impossible to work on planks sitting on ground. The height of the work benches should be according to the age level of the students i.e. 26° x 30°. There are two types and sizes of working benches in use.
 - 5' x 30" x 26" to 30" height (for 2 students)
 4' x 24" x 26" to 30" height (for one student)

But my suggestion is that let type of work beach will be more useful.

- 3. Tools: In these days, costs of tools are very high. So that, it will not be possible to supply every where. Our suggestion in this connection is that instead of having batches of 30 students at a time, it would be better to make ? batches (15 in each batch). By making this arrangement, the supervision work will be more easy and practicable and investment for tools will also be less.
- 4. Creft Pariods: Continuous 2 periods of 40 minutes Caration in a week (only 5 days) should be given for craft in lower standards and continuous 2 periods of 45 minutes i.e. ly hours daily i.e. 7% hours in a week (only 5 days) should be given for craft in higher standards.
- 5. Ray Materials (wood): In wood work, wood is the main ray puterial. The institution in which wood work is introduced should purchase the wood in round logs directly from the dovernment forest depots at scheduled rates.

Maximum rate of the wood will be fixed at M. 14/- to 15/including transporting and sawing charges.

We will get all sizes of timbers from the lot.

Planks: From 6" to 12", 14" Breadth Bafters: 3' to 10' long Respers: of all sizes

Statement showing the estimates of raw materials for a class of 30 students in Paper, card-board.

stands II	The off	Standar	ins vise apie man ded	Stanta VI		Standard V
gager dealth dealth		O R	Α 1		STAND	ARDS
All k		All weight Card boar		ifferent urs and		l miscellaneous raw materials
Bus.		Pi . 1	nP	75 o	$\mathfrak{M}_{\mathfrak{D}}$	M. nP
100	90	200	00	75	00	75 00
100	00					
75	00					
75	()()					
350	99		and at after		. Am word we	tard a la
		***	for or	martur m year standar	e for rav ma ds.	प्राप्त ३ / २वर इस्तर प्रमुख सम्मान्यार

Netional Institute of Education

Life of Education

Life of Education

F15.748.

1.35. No. 29.4.8.5.